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Mathematica Cookbook

O'REILLY™

Sal Mangano

Mathematica Cookbook

**Vivian Siahaan, Rismon Hasiholan
Sianipar**



Mathematica Cookbook:

Mathematica Cookbook Sal Mangano, 2010-04-02 Mathematica Cookbook helps you master the application's core principles by walking you through real world problems. Ideal for browsing, this book includes recipes for working with numerics, data structures, algebraic equations, calculus, and statistics. You'll also venture into exotic territory with recipes for data visualization using 2D and 3D graphic tools, image processing, and music. Although Mathematica 7 is a highly advanced computational platform, the recipes in this book make it accessible to everyone, whether you're working on high school algebra, simple graphs, PhD level computation, financial analysis, or advanced engineering models. Learn how to use Mathematica at a higher level with functional programming and pattern matching. Delve into the rich library of functions for string and structured text manipulation. Learn how to apply the tools to physics and engineering problems. Draw on Mathematica's access to physics, chemistry, and biology data. Get techniques for solving equations in computational finance. Learn how to use Mathematica for sophisticated image processing. Process music and audio as musical notes, analog waveforms, or digital sound samples.

Mathematica Cookbook Salvatore Mangano, 2010-05-05 Mathematica Cookbook helps you master the application's core principles by walking you through real world problems. Ideal for browsing, this book includes recipes for working with numerics, data structures, algebraic equations, calculus, and statistics. You'll also venture into exotic territory with recipes for data visualization using 2D and 3D graphic tools, image processing, and music. Although Mathematica 7 is a highly advanced computational platform, the recipes in this book make it accessible to everyone, whether you're working on high school algebra, simple graphs, PhD level computation, financial analysis, or advanced engineering models. Learn how to use Mathematica at a higher level with functional programming and pattern matching. Delve into the rich library of functions for string and structured text manipulation. Learn how to apply the tools to physics and engineering problems. Draw on Mathematica's access to physics, chemistry, and biology data. Get techniques for solving equations in computational finance. Learn how to use Mathematica for sophisticated image processing. Process music and audio as musical notes, analog waveforms, or digital sound samples.

Iterative Methods for Solving Nonlinear Equations and Systems Juan R. Torregrosa, Alicia Cordero, Fazlollah Soleymani, 2019-12-06 Solving nonlinear equations in Banach spaces, real or complex, nonlinear equations, nonlinear systems, and nonlinear matrix equations among others is a non-trivial task that involves many areas of science and technology. Usually, the solution is not directly affordable and requires an approach using iterative algorithms. This Special Issue focuses mainly on the design, analysis of convergence, and stability of new schemes for solving nonlinear problems and their application to practical problems. Included papers study the following topics: Methods for finding simple or multiple roots, either with or without derivatives; iterative methods for approximating different generalized inverses; real or complex dynamics associated to the rational functions resulting from the application of an iterative method on a polynomial. Additionally, the analysis of the convergence has been carried out by means of different sufficient conditions.

assuring the local semilocal or global convergence This Special issue has allowed us to present the latest research results in the area of iterative processes for solving nonlinear equations as well as systems and matrix equations In addition to the theoretical papers several manuscripts on signal processing nonlinear integral equations or partial differential equations reveal the connection between iterative methods and other branches of science and engineering Introduction to Mathematical Modeling and Computer Simulations Vladimir Mityushev,Radoslaw Antoni Kycia,Wojciech Nawalaniec,Natalia Rylko,2024-12-20 Introduction to Mathematical Modeling and Computer Simulations Second Edition continues to serve as an engaging and accessible textbook for undergraduates studying mathematical modeling and computer simulations The book is heavily focussed on applications and so may have a particular appeal to applied mathematicians engineers and others working in applied quantitative disciplines The book may also be useful as a reference text for reference text for early career stage practitioners New to this Edition A new chapter on Machine Learning and Data Analysis in order to account for recent developments in the field Chapter 9 Asymptotic Methods in Composites has been entirely re written to make it more consistent with industry and scientific standards Includes an elementary introduction to programming in Python language The Jupyter notebooks with examples for Chapter 10 and Appendix A are available for a download from www.Routledge.com 9781032661513 Computational Methods for Solids and Fluids Adnan Ibrahimbegovic,2016-02-12 This volume contains the best papers presented at the 2nd ECCOMAS International Conference on Multiscale Computations for Solids and Fluids held June 10 12 2015 Topics dealt with include multiscale strategy for efficient development of scientific software for large scale computations coupled probability nonlinear mechanics problems and solution methods and modern mathematical and computational setting for multi phase flows and fluid structure interaction The papers consist of contributions by six experts who taught short courses prior to the conference along with several selected articles from other participants dealing with complementary issues covering both solid mechanics and applied mathematics **MATLAB** Kelly Bennett,2014-09-08 MATLAB is an indispensable asset for scientists researchers and engineers The richness of the MATLAB computational environment combined with an integrated development environment IDE and straightforward interface toolkits and simulation and modeling capabilities creates a research and development tool that has no equal From quick code prototyping to full blown deployable applications MATLAB stands as a de facto development language and environment serving the technical needs of a wide range of users As a collection of diverse applications each book chapter presents a novel application and use of MATLAB for a specific result **Innovations and Advances in Computing, Informatics, Systems Sciences, Networking and Engineering** Tarek Sobh,Khaled Elleithy,2014-11-07 Innovations and Advances in Computing Informatics Systems Sciences Networking and Engineering This book includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Computer Science Informatics and Systems Sciences and Engineering It includes selected papers from the conference proceedings of the Eighth and some

selected papers of the Ninth International Joint Conferences on Computer Information and Systems Sciences and Engineering CISSE 2012 Includes chapters in the most advanced areas of Computing Informatics Systems Sciences and Engineering Accessible to a wide range of readership including professors researchers practitioners and students

Mathematical Geosciences Joseph L. Awange, Béla Paláncz, Robert H. Lewis, Lajos Völgyesi, 2018-01-29 This book showcases powerful new hybrid methods that combine numerical and symbolic algorithms Hybrid algorithm research is currently one of the most promising directions in the context of geosciences mathematics and computer mathematics in general One important topic addressed here with a broad range of applications is the solution of multivariate polynomial systems by means of resultants and Groebner bases But that's barely the beginning as the authors proceed to discuss genetic algorithms integer programming symbolic regression parallel computing and many other topics The book is strictly goal oriented focusing on the solution of fundamental problems in the geosciences such as positioning and point cloud problems As such at no point does it discuss purely theoretical mathematics The book delivers hybrid symbolic numeric solutions which are a large and growing area at the boundary of mathematics and computer science Dr Daniel Li chtbau [InfoWorld](#), 1988-12-12 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects ***ZERO TO MASTERY: THE COMPLETE GUIDE TO LEARNING SQLITE AND PYTHON GUI*** Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-08-17 In this project we provide you with the SQLite version of The Oracle Database Sample Schemas that provides a common platform for examples in each release of the Oracle Database The sample database is also a good database for practicing with SQL especially SQLite The detailed description of the database can be found on <http://luna.ext.oracle.com/server/112e10831/diagrams.htm> insertedID0 The four schemas are a set of interlinked schemas This set of schemas provides a layered approach to complexity A simple schema Human Resources HR is useful for introducing basic topics An extension to this schema supports Oracle Internet Directory demos A second schema Order Entry OE is useful for dealing with matters of intermediate complexity Many data types are available in this schema including non scalar data types The Online Catalog OC subschema is a collection of object relational database objects built inside the OE schema The Product Media PM schema is dedicated to multimedia data types The Sales History SH schema is designed to allow for demos with large amounts of data An extension to this schema provides support for advanced analytic processing The HR schema consists of seven tables regions countries locations departments employees jobs and job_histories This book only implements HR schema since the other schemas will be implemented in the next books **ANALYSIS AND PREDICTION PROJECTS USING MACHINE LEARNING AND DEEP LEARNING WITH PYTHON** Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-02-17 **PROJECT 1 DEFAULT LOAN PREDICTION BASED ON CUSTOMER BEHAVIOR** Using Machine Learning and Deep Learning with Python In finance default is failure to meet the legal obligations or conditions of a loan for example when a home buyer fails to make a mortgage payment or when a

corporation or government fails to pay a bond which has reached maturity A national or sovereign default is the failure or refusal of a government to repay its national debt The dataset used in this project belongs to a Hackathon organized by Univ AI All values were provided at the time of the loan application Following are the features in the dataset Income Age Experience Married Single House_Ownership Car_Ownership Profession CITY STATE CURRENT_JOB_YRS CURRENT_HOUSE_YRS and Risk_Flag The Risk_Flag indicates whether there has been a default in the past or not The machine learning models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier MLP classifier and CNN 1D Finally you will plot boundary decision ROC distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy

PROJECT 2 AIRLINE PASSENGER SATISFACTION Analysis and Prediction Using Machine Learning and Deep Learning with Python The dataset used in this project contains an airline passenger satisfaction survey In this case you will determine what factors are highly correlated to a satisfied or dissatisfied passenger and predict passenger satisfaction Below are the features in the dataset Gender Gender of the passengers Female Male Customer Type The customer type Loyal customer disloyal customer Age The actual age of the passengers Type of Travel Purpose of the flight of the passengers Personal Travel Business Travel Class Travel class in the plane of the passengers Business Eco Eco Plus Flight distance The flight distance of this journey Inflight wifi service Satisfaction level of the inflight wifi service 0 Not Applicable 1 5 Departure Arrival time convenient Satisfaction level of Departure Arrival time convenient Ease of Online booking Satisfaction level of online booking Gate location Satisfaction level of Gate location Food and drink Satisfaction level of Food and drink Online boarding Satisfaction level of online boarding Seat comfort Satisfaction level of Seat comfort Inflight entertainment Satisfaction level of inflight entertainment On board service Satisfaction level of On board service Leg room service Satisfaction level of Leg room service Baggage handling Satisfaction level of baggage handling Check in service Satisfaction level of Check in service Inflight service Satisfaction level of inflight service Cleanliness Satisfaction level of Cleanliness Departure Delay in Minutes Minutes delayed when departure Arrival Delay in Minutes Minutes delayed when Arrival and Satisfaction Airline satisfaction level Satisfaction neutral or dissatisfaction The machine learning models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine LGBM classifier Gradient Boosting XGB classifier MLP classifier and CNN 1D Finally you will plot boundary decision ROC distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy

PROJECT 3 CREDIT CARD CHURNING CUSTOMER ANALYSIS AND PREDICTION USING MACHINE LEARNING AND DEEP LEARNING WITH PYTHON The dataset used in this project consists of more than 10 000 customers mentioning their age salary marital_status

credit card limit credit card category etc There are 20 features in the dataset In the dataset there are only 16 07% of customers who have churned Thus it s a bit difficult to train our model to predict churning customers Following are the features in the dataset Attrition_Flag Customer_Age Gender Dependent_count Education_Level Marital_Status Income_Category Card_Category Months_on_book Total_Relationship_Count Months_Inactive_12_mon Contacts_Count_12_mon Credit_Limit Total_Revolving_Bal Avg_Open_To_Buy Total_Amt_Chng_Q4_Q1 Total_Trans_Amt Total_Trans_Ct Total_Ct_Chng_Q4_Q1 and Avg_Utilization_Ratio The target variable is Attrition_Flag The machine learning models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine LGBM classifier Gradient Boosting XGB classifier MLP classifier and CNN 1D Finally you will plot boundary decision ROC distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy

PROJECT 4 MARKETING ANALYSIS AND PREDICTION USING MACHINE LEARNING AND DEEP LEARNING WITH PYTHON

This data set was provided to students for their final project in order to test their statistical analysis skills as part of a MSc in Business Analytics It can be utilized for EDA Statistical Analysis and Visualizations Following are the features in the dataset ID Customer s unique identifier Year_Birth Customer s birth year Education Customer s education level Marital_Status Customer s marital status Income Customer s yearly household income Kidhome Number of children in customer s household Teenhome Number of teenagers in customer s household Dt_Customer Date of customer s enrollment with the company Recency Number of days since customer s last purchase MntWines Amount spent on wine in the last 2 years MntFruits Amount spent on fruits in the last 2 years MntMeatProducts Amount spent on meat in the last 2 years MntFishProducts Amount spent on fish in the last 2 years MntSweetProducts Amount spent on sweets in the last 2 years MntGoldProds Amount spent on gold in the last 2 years NumDealsPurchases Number of purchases made with a discount NumWebPurchases Number of purchases made through the company s web site NumCatalogPurchases Number of purchases made using a catalogue NumStorePurchases Number of purchases made directly in stores NumWebVisitsMonth Number of visits to company s web site in the last month AcceptedCmp3 1 if customer accepted the offer in the 3rd campaign 0 otherwise AcceptedCmp4 1 if customer accepted the offer in the 4th campaign 0 otherwise AcceptedCmp5 1 if customer accepted the offer in the 5th campaign 0 otherwise AcceptedCmp1 1 if customer accepted the offer in the 1st campaign 0 otherwise AcceptedCmp2 1 if customer accepted the offer in the 2nd campaign 0 otherwise Response 1 if customer accepted the offer in the last campaign 0 otherwise Complain 1 if customer complained in the last 2 years 0 otherwise and Country Customer s location The machine and deep learning models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine LGBM classifier Gradient Boosting XGB classifier MLP classifier and CNN 1D Finally you will plot boundary decision ROC distribution of features feature importance cross

validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy

PROJECT 5 METEOROLOGICAL DATA ANALYSIS AND PREDICTION USING MACHINE LEARNING WITH PYTHON

Meteorological phenomena are described and quantified by the variables of Earth's atmosphere: temperature, air pressure, water vapour, mass flow, and the variations and interactions of these variables and how they change over time. Different spatial scales are used to describe and predict weather on local, regional, and global levels. The dataset used in this project consists of meteorological data with 96453 total number of data points and with 11 attributes (columns). Following are the columns in the dataset: Formatted Date, Summary Precip Type, Temperature C, Apparent Temperature C, Humidity, Wind Speed km/h, Wind Bearing degrees, Visibility km, Pressure millibars, and Daily Summary. The machine learning models used in this project are K-Nearest Neighbor, Random Forest, Naive Bayes, Logistic Regression, Decision Tree, Support Vector Machine, LGBM classifier, Gradient Boosting, XGB classifier, and MLP classifier. Finally, you will plot boundary decision, distribution of features, feature importance, cross-validation score, and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy.

TRAVEL REVIEW RATING CLASSIFICATION AND PREDICTION USING MACHINE LEARNING WITH PYTHON

GUI

Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-04-05. The dataset used in this project has been sourced from the Machine Learning Repository of University of California Irvine (UC Irvine Travel Review Ratings Data Set). This dataset is populated by capturing user ratings from Google reviews. Reviews on attractions from 24 categories across Europe are considered. Google user rating ranges from 1 to 5, and average user rating per category is calculated. The attributes in the dataset are as follows:

- Attribute 1: Unique user id
- Attribute 2: Average ratings on churches
- Attribute 3: Average ratings on resorts
- Attribute 4: Average ratings on beaches
- Attribute 5: Average ratings on parks
- Attribute 6: Average ratings on theatres
- Attribute 7: Average ratings on museums
- Attribute 8: Average ratings on malls
- Attribute 9: Average ratings on zoo
- Attribute 10: Average ratings on restaurants
- Attribute 11: Average ratings on pubs/bars
- Attribute 12: Average ratings on local services
- Attribute 13: Average ratings on burger/pizza shops
- Attribute 14: Average ratings on hotels/other lodgings
- Attribute 15: Average ratings on juice bars
- Attribute 16: Average ratings on art galleries
- Attribute 17: Average ratings on dance clubs
- Attribute 18: Average ratings on swimming pools
- Attribute 19: Average ratings on gyms
- Attribute 20: Average ratings on bakeries
- Attribute 21: Average ratings on beauty
- Attribute 22: Average ratings on cafes
- Attribute 23: Average ratings on view points
- Attribute 24: Average ratings on monuments
- Attribute 25: Average ratings on gardens

The models used in this project are K-Nearest Neighbor, Random Forest, Naive Bayes, Logistic Regression, Decision Tree, Support Vector Machine, Adaboost, LGBM classifier, Gradient Boosting, XGB classifier, and MLP classifier. Three feature scaling methods used in machine learning are raw, minmax scaler, and standard scaler. Finally, you will develop a GUI using PyQt5 to plot cross-validation score, predicted values versus true values confusion matrix learning curve, decision boundaries, performance of the model scalability.

of the model training loss and training accuracy *In-Depth Tutorials: Deep Learning Using Scikit-Learn, Keras, and TensorFlow with Python GUI* Vivian Siahaan, Rismon Hasiholan Sianipar, 2021-06-05 BOOK 1 LEARN FROM SCRATCH

MACHINE LEARNING WITH PYTHON GUI In this book you will learn how to use NumPy Pandas OpenCV Scikit Learn and other libraries to how to plot graph and to process digital image Then you will learn how to classify features using Perceptron Adaline Logistic Regression LR Support Vector Machine SVM Decision Tree DT Random Forest RF and K Nearest Neighbor KNN models You will also learn how to extract features using Principal Component Analysis PCA Linear Discriminant Analysis LDA Kernel Principal Component Analysis KPCA algorithms and use them in machine learning In Chapter 1 you will learn Tutorial Steps To Create A Simple GUI Application Tutorial Steps to Use Radio Button Tutorial Steps to Group Radio Buttons Tutorial Steps to Use CheckBox Widget Tutorial Steps to Use Two CheckBox Groups Tutorial Steps to Understand Signals and Slots Tutorial Steps to Convert Data Types Tutorial Steps to Use Spin Box Widget Tutorial Steps to Use ScrollBar and Slider Tutorial Steps to Use List Widget Tutorial Steps to Select Multiple List Items in One List Widget and Display It in Another List Widget Tutorial Steps to Insert Item into List Widget Tutorial Steps to Use Operations on Widget List Tutorial Steps to Use Combo Box Tutorial Steps to Use Calendar Widget and Date Edit and Tutorial Steps to Use Table Widget In Chapter 2 you will learn Tutorial Steps To Create A Simple Line Graph Tutorial Steps To Create A Simple Line Graph in Python GUI Tutorial Steps To Create A Simple Line Graph in Python GUI Part 2 Tutorial Steps To Create Two or More Graphs in the Same Axis Tutorial Steps To Create Two Axes in One Canvas Tutorial Steps To Use Two Widgets Tutorial Steps To Use Two Widgets Each of Which Has Two Axes Tutorial Steps To Use Axes With Certain Opacity Levels Tutorial Steps To Choose Line Color From Combo Box Tutorial Steps To Calculate Fast Fourier Transform Tutorial Steps To Create GUI For FFT Tutorial Steps To Create GUI For FFT With Some Other Input Signals Tutorial Steps To Create GUI For Noisy Signal Tutorial Steps To Create GUI For Noisy Signal Filtering and Tutorial Steps To Create GUI For Wav Signal Filtering In Chapter 3 you will learn Tutorial Steps To Convert RGB Image Into Grayscale Tutorial Steps To Convert RGB Image Into YUV Image Tutorial Steps To Convert RGB Image Into HSV Image Tutorial Steps To Filter Image Tutorial Steps To Display Image Histogram Tutorial Steps To Display Filtered Image Histogram Tutorial Steps To Filter Image With CheckBoxes Tutorial Steps To Implement Image Thresholding and Tutorial Steps To Implement Adaptive Image Thresholding You will also learn Tutorial Steps To Generate And Display Noisy Image Tutorial Steps To Implement Edge Detection On Image Tutorial Steps To Implement Image Segmentation Using Multiple Thresholding and K Means Algorithm Tutorial Steps To Implement Image Denoising Tutorial Steps To Detect Face Eye and Mouth Using Haar Cascades Tutorial Steps To Detect Face Using Haar Cascades with PyQt Tutorial Steps To Detect Eye and Mouth Using Haar Cascades with PyQt Tutorial Steps To Extract Detected Objects Tutorial Steps To Detect Image Features Using Harris Corner Detection Tutorial Steps To Detect Image Features Using Shi Tomasi Corner Detection Tutorial Steps To Detect Features Using Scale Invariant Feature Transform

SIFT and Tutorial Steps To Detect Features Using Features from Accelerated Segment Test FAST In Chapter 4 In this tutorial you will learn how to use Pandas NumPy and other libraries to perform simple classification using perceptron and Adaline adaptive linear neuron The dataset used is Iris dataset directly from the UCI Machine Learning Repository You will learn Tutorial Steps To Implement Perceptron Tutorial Steps To Implement Perceptron with PyQt Tutorial Steps To Implement Adaline ADaptive LInear NEuron and Tutorial Steps To Implement Adaline with PyQt In Chapter 5 you will learn how to use the scikit learn machine learning library which provides a wide variety of machine learning algorithms via a user friendly Python API and to perform classification using perceptron Adaline adaptive linear neuron and other models The dataset used is Iris dataset directly from the UCI Machine Learning Repository You will learn Tutorial Steps To Implement Perceptron Using Scikit Learn Tutorial Steps To Implement Perceptron Using Scikit Learn with PyQt Tutorial Steps To Implement Logistic Regression Model Tutorial Steps To Implement Logistic Regression Model with PyQt Tutorial Steps To Implement Logistic Regression Model Using Scikit Learn with PyQt Tutorial Steps To Implement Support Vector Machine SVM Using Scikit Learn Tutorial Steps To Implement Decision Tree DT Using Scikit Learn Tutorial Steps To Implement Random Forest RF Using Scikit Learn and Tutorial Steps To Implement K Nearest Neighbor KNN Using Scikit Learn In Chapter 6 you will learn how to use Pandas NumPy Scikit Learn and other libraries to implement different approaches for reducing the dimensionality of a dataset using different feature selection techniques You will learn about three fundamental techniques that will help us to summarize the information content of a dataset by transforming it onto a new feature subspace of lower dimensionality than the original one Data compression is an important topic in machine learning and it helps us to store and analyze the increasing amounts of data that are produced and collected in the modern age of technology You will learn the following topics Principal Component Analysis PCA for unsupervised data compression Linear Discriminant Analysis LDA as a supervised dimensionality reduction technique for maximizing class separability Nonlinear dimensionality reduction via Kernel Principal Component Analysis KPCA You will learn Tutorial Steps To Implement Principal Component Analysis PCA Tutorial Steps To Implement Principal Component Analysis PCA Using Scikit Learn Tutorial Steps To Implement Principal Component Analysis PCA Using Scikit Learn with PyQt Tutorial Steps To Implement Linear Discriminant Analysis LDA Tutorial Steps To Implement Linear Discriminant Analysis LDA with Scikit Learn Tutorial Steps To Implement Linear Discriminant Analysis LDA Using Scikit Learn with PyQt Tutorial Steps To Implement Kernel Principal Component Analysis KPCA Using Scikit Learn and Tutorial Steps To Implement Kernel Principal Component Analysis KPCA Using Scikit Learn with PyQt In Chapter 7 you will learn how to use Keras Scikit Learn Pandas NumPy and other libraries to perform prediction on handwritten digits using MNIST dataset You will learn Tutorial Steps To Load MNIST Dataset Tutorial Steps To Load MNIST Dataset with PyQt Tutorial Steps To Implement Perceptron With PCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Perceptron With LDA Feature Extractor on MNIST Dataset Using PyQt

Tutorial Steps To Implement Perceptron With KPCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Logistic Regression LR Model With PCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Logistic Regression LR Model With LDA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Logistic Regression LR Model With KPCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Support Vector Machine SVM Model With LDA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Support Vector Machine SVM Model With KPCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Decision Tree DT Model With PCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Decision Tree DT Model With LDA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Decision Tree DT Model With KPCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Random Forest RF Model With PCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Random Forest RF Model With LDA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Random Forest RF Model With KPCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement K Nearest Neighbor KNN Model With PCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement K Nearest Neighbor KNN Model With LDA Feature Extractor on MNIST Dataset Using PyQt and Tutorial Steps To Implement K Nearest Neighbor KNN Model With KPCA Feature Extractor on MNIST Dataset Using PyQt

BOOK 2 THE PRACTICAL GUIDES ON DEEP LEARNING USING SCIKIT LEARN KERAS AND TENSORFLOW WITH PYTHON GUI In this book you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to implement deep learning on recognizing traffic signs using GTSRB dataset detecting brain tumor using Brain Image MRI dataset classifying gender and recognizing facial expression using FER2013 dataset In Chapter 1 you will learn to create GUI applications to display line graph using PyQt You will also learn how to display image and its histogram In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn Pandas NumPy and other libraries to perform prediction on handwritten digits using MNIST dataset with PyQt You will build a GUI application for this purpose In Chapter 3 you will learn how to perform recognizing traffic signs using GTSRB dataset from Kaggle There are several different types of traffic signs like speed limits no entry traffic signals turn left or right children crossing no passing of heavy vehicles etc Traffic signs classification is the process of identifying which class a traffic sign belongs to In this Python project you will build a deep neural network model that can classify traffic signs in image into different categories With this model you will be able to read and understand traffic signs which are a very important task for all autonomous vehicles You will build a GUI application for this purpose In Chapter 4 you will learn how to perform detecting brain tumor using Brain Image MRI dataset provided by Kaggle <https://www.kaggle.com/navoneel/brain-mri-images-for-brain-tumor-detection> using CNN model You will build a GUI application for this purpose In Chapter 5 you will learn how to perform classifying gender using dataset provided by Kaggle <https://www.kaggle.com>

com cashutosh gender classification dataset using MobileNetV2 and CNN models You will build a GUI application for this purpose In Chapter 6 you will learn how to perform recognizing facial expression using FER2013 dataset provided by Kaggle <https://www.kaggle.com/nicolejyt/facialexpressionrecognition> using CNN model You will also build a GUI application for this purpose

BOOK 3 STEP BY STEP TUTORIALS ON DEEP LEARNING USING SCIKIT LEARN KERAS AND TENSORFLOW WITH PYTHON GUI

In this book you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to implement deep learning on classifying fruits classifying cats dogs detecting furnitures and classifying fashion In Chapter 1 you will learn to create GUI applications to display line graph using PyQt You will also learn how to display image and its histogram Then you will learn how to use OpenCV NumPy and other libraries to perform feature extraction with Python GUI PyQt The feature detection techniques used in this chapter are Harris Corner Detection Shi Tomasi Corner Detector and Scale Invariant Feature Transform SIFT In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform classifying fruits using Fruits 360 dataset provided by Kaggle <https://www.kaggle.com/moltean/fruits> code using Transfer Learning and CNN models You will build a GUI application for this purpose In Chapter 3 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform classifying cats dogs using dataset provided by Kaggle <https://www.kaggle.com/chetankv/dogs> cats images using Using CNN with Data Generator You will build a GUI application for this purpose In Chapter 4 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform detecting furnitures using Furniture Detector dataset provided by Kaggle <https://www.kaggle.com/akkithetechie/furniture-detector> using VGG16 model You will build a GUI application for this purpose In Chapter 5 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform classifying fashion using Fashion MNIST dataset provided by Kaggle <https://www.kaggle.com/zalando-research/fashionmnist> code using CNN model You will build a GUI application for this purpose

BOOK 4 Project Based Approach On DEEP LEARNING Using Scikit Learn Keras And TensorFlow with Python GUI

In this book implement deep learning on detecting vehicle license plates recognizing sign language and detecting surface crack using TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries In Chapter 1 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform detecting vehicle license plates using Car License Plate Detection dataset provided by Kaggle <https://www.kaggle.com/andrewmvd/car-plate-detection-download> In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform sign language recognition using Sign Language Digits Dataset provided by Kaggle <https://www.kaggle.com/ardamavi/sign-language-digits-dataset-download> In Chapter 3 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform detecting surface crack using Surface Crack Detection provided by Kaggle <https://www.kaggle.com/arunrk7/surface-crack-detection-download>

BOOK 5 Hands On Guide To IMAGE CLASSIFICATION Using Scikit

Learn Keras And TensorFlow with PYTHON GUI In this book implement deep learning based image classification on detecting face mask classifying weather and recognizing flower using TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries In Chapter 1 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform detecting face mask using Face Mask Detection Dataset provided by Kaggle <https://www.kaggle.com/omkargurav/face-mask-dataset-download> In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to classify weather using Multi class Weather Dataset provided by Kaggle <https://www.kaggle.com/pratik2901/multiclass-weather-dataset-download> In Chapter 3 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to recognize flower using Flowers Recognition dataset provided by Kaggle <https://www.kaggle.com/alxmamaev/flowers-recognition-download>

BOOK 6 Step by Step Tutorial

IMAGE CLASSIFICATION Using Scikit Learn Keras And TensorFlow with PYTHON GUI In this book implement deep learning based image classification on classifying monkey species recognizing rock paper and scissor and classify airplane car and ship using TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries In Chapter 1 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to classify monkey species using 10 Monkey Species dataset provided by Kaggle <https://www.kaggle.com/slothkong/10-monkey-species-download> In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to recognize rock paper and scissor using 10 Monkey Species dataset provided by Kaggle <https://www.kaggle.com/sanikamal/rock-paper-scissors-dataset-download> In Chapter 3 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to classify airplane car and ship using Multiclass image dataset airplane car ship dataset provided by Kaggle <https://www.kaggle.com/abtabm/multiclassimage-dataset-airplanecar>

DATA SCIENCE WITH MYSQL, SQLITE, POSTGRESQL, AND SQL SERVER USING PYTHON GUI Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-10-03

Book 1 MYSQL AND DATA SCIENCE QUERIES AND VISUALIZATION WITH PYTHON GUI In this project you will write Python script to create every table and insert rows of data into each of them You will develop GUI with PyQt5 to each table in the database You will also create GUI to plot case distribution of film release year film rating rental duration and categorize film length plot rating variable against rental_duration variable in stacked bar plots plot length variable against rental_duration variable in stacked bar plots read payment table plot case distribution of Year Day Month Week and Quarter of payment plot which year month week days of week and quarter have most payment amount read film list by joining five tables category film_category film_actor film and actor plot case distribution of top 10 and bottom 10 actors plot which film title have least and most sales plot which actor have least and most sales plot which film category have least and most sales plot case distribution of top 10 and bottom 10 overdue costumers plot which customer have least and most overdue days plot which store have most sales plot average payment amount by month with mean and EWM and plot

payment amount over June 2005 This project uses the Sakila sample database which is a fictitious database designed to represent a DVD rental store The tables of the database include film film_category actor film_actor customer rental payment and inventory among others You can download the MySQL from <https://dev.mysql.com/doc/sakila/en> Book 2 SQLITE FOR DATA ANALYST AND DATA SCIENTIST WITH PYTHON GUI In this project we will use the SQLite version of BikeStores database as a sample database to help you work with MySQL quickly and effectively The stores table includes the store s information Each store has a store name contact information such as phone and email and an address including street city state and zip code The staffs table stores the essential information of staffs including first name last name It also contains the communication information such as email and phone A staff works at a store specified by the value in the store_id column A store can have one or more staffs A staff reports to a store manager specified by the value in the manager_id column If the value in the manager_id is null then the staff is the top manager If a staff no longer works for any stores the value in the active column is set to zero The categories table stores the bike s categories such as children bicycles comfort bicycles and electric bikes The products table stores the product s information such as name brand category model year and list price Each product belongs to a brand specified by the brand_id column Hence a brand may have zero or many products Each product also belongs a category specified by the category_id column Also each category may have zero or many products The customers table stores customer s information including first name last name phone email street city state zip code and photo path The orders table stores the sales order s header information including customer order status order date required date shipped date It also stores the information on where the sales transaction was created store and who created it staff Each sales order has a row in the sales_orders table A sales order has one or many line items stored in the order_items table The order_items table stores the line items of a sales order Each line item belongs to a sales order specified by the order_id column A sales order line item includes product order quantity list price and discount The stocks table stores the inventory information i e the quantity of a particular product in a specific store Book 3 ZERO TO MASTERY THE COMPLETE GUIDE TO LEARNING POSTGRESQL WITH PYTHON GUI This book uses the PostgreSQL version of MySQL based Northwind database The Northwind database is a sample database that was originally created by Microsoft and used as the basis for their tutorials in a variety of database products for decades The Northwind database contains the sales data for a fictitious company called Northwind Traders which imports and exports specialty foods from around the world The Northwind database is an excellent tutorial schema for a small business ERP with customers orders inventory purchasing suppliers shipping employees and single entry accounting The Northwind database has since been ported to a variety of non Microsoft databases including PostgreSQL The Northwind dataset includes sample data for the following Suppliers Suppliers and vendors of Northwind Customers Customers who buy products from Northwind Employees Employee details of Northwind traders Products Product information Shippers The details of the shippers who ship the products from the traders to the end

customers and Orders and Order_Details Sales Order transactions taking place between the customers the distribution of amount by year quarter month week day and hour the distribution of bottom 10 sales by product top 10 sales by product bottom 10 sales by customer top 10 sales by customer bottom 10 sales by supplier top 10 sales by supplier bottom 10 sales by customer country top 10 sales by customer country bottom 10 sales by supplier country top 10 sales by supplier country average amount by month with mean and ewm average amount by every month amount feature over June 1997 amount feature over 1998 and all amount feature Book 4 ZERO TO MASTERY THE COMPLETE GUIDE TO LEARNING SQL SERVER AND DATA SCIENCE WITH PYTHON GUI In this project we provide you with a SQL SERVER version of an Oracle sample database named OT which is based on a global fictitious company that sells computer hardware including storage motherboard RAM video card and CPU The company maintains the product information such as name description standard cost list price and product line It also tracks the inventory information for all products including warehouses where products are available Because the company operates globally it has warehouses in various locations around the world The company records all customer information including name address and website Each customer has at least one contact person with detailed information including name email and phone The company also places a credit limit on each customer to limit the amount that customer can owe Whenever a customer issues a purchase order a sales order is created in the database with the pending status When the company ships the order the order status becomes shipped In case the customer cancels an order the order status becomes canceled In addition to the sales information the employee data is recorded with some basic information such as name email phone job title manager and hire date In this project you will write Python script to create every table and insert rows of data into each of them You will develop GUI with PyQt5 to each table in the database You will also create GUI to plot case distribution of order date by year quarter month week and day the distribution of amount by year quarter month week day and hour the distribution of bottom 10 sales by product top 10 sales by product bottom 10 sales by customer top 10 sales by customer bottom 10 sales by category top 10 sales by category bottom 10 sales by status top 10 sales by status bottom 10 sales by customer city top 10 sales by customer city bottom 10 sales by customer state top 10 sales by customer state average amount by month with mean and EWM average amount by every month amount feature over June 2016 amount feature over 2017 and amount payment in all years

FULL SOURCE CODE: POSTGRESQL FOR DATA ANALYTICS AND VISUALIZATION WITH PYTHON GUI Vivian Siahaan,Rismon Hasiholan Sianipar,2022-09-13 In this project we provide you with a PostgreSQL version of an Oracle sample database named OT which is based on a global fictitious company that sells computer hardware including storage motherboard RAM video card and CPU The company maintains the product information such as name description standard cost list price and product line It also tracks the inventory information for all products including warehouses where products are available Because the company operates globally it has warehouses in various locations around the world The company records all customer information including

name address and website Each customer has at least one contact person with detailed information including name email and phone The company also places a credit limit on each customer to limit the amount that customer can owe Whenever a customer issues a purchase order a sales order is created in the database with the pending status When the company ships the order the order status becomes shipped In case the customer cancels an order the order status becomes canceled In addition to the sales information the employee data is recorded with some basic information such as name email phone job title manager and hire date In this project you will write Python script to create every table and insert rows of data into each of them You will develop GUI with PyQt5 to each table in the database You will also create GUI to plot case distribution of order date by year quarter month week and day the distribution of amount by year quarter month week day and hour the distribution of bottom 10 sales by product top 10 sales by product bottom 10 sales by customer top 10 sales by customer bottom 10 sales by category top 10 sales by category bottom 10 sales by status top 10 sales by status bottom 10 sales by customer city top 10 sales by customer city bottom 10 sales by customer state top 10 sales by customer state average amount by month with mean and EWM average amount by every month amount feature over June 2016 amount feature over 2017 and amount payment in all years

Step by Step Tutorial IMAGE CLASSIFICATION Using Scikit-Learn, Keras, And TensorFlow with PYTHON GUI Vivian Siahaan, 2023-06-21 In this book implement deep learning based image classification on classifying monkey species recognizing rock paper and scissor and classify airplane car and ship using TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries In chapter 1 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to classify monkey species using 10 Monkey Species dataset provided by Kaggle <https://www.kaggle.com/slothkong/10-monkey-species-download> Here s an overview of the steps involved in classifying monkey species using the 10 Monkey Species dataset Dataset Preparation Download the 10 Monkey Species dataset from Kaggle and extract the files The dataset should consist of separate folders for each monkey species with corresponding images Load and Preprocess Images Use libraries such as OpenCV to load the images from the dataset Resize the images to a consistent size e g 224x224 pixels to ensure uniformity Split the Dataset Divide the dataset into training and testing sets Typically an 80 20 or 70 30 split is used where the larger portion is used for training and the smaller portion for testing the model s performance Label Encoding Encode the categorical labels monkey species into numeric form This step is necessary to train a machine learning model as most algorithms expect numerical inputs Feature Extraction Extract meaningful features from the images using techniques like deep learning or image processing algorithms This step helps in representing the images in a format that the machine learning model can understand Model Training Use libraries like TensorFlow and Keras to train a machine learning model on the preprocessed data Choose an appropriate model architecture in this case MobileNetV2 Model Evaluation Evaluate the trained model on the testing set to assess its performance Metrics like accuracy precision recall and F1 score can be used to evaluate the model s classification performance Predictions Use

the trained model to make predictions on new unseen images Pass the images through the trained model and obtain the predicted labels for the monkey species In chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to recognize rock paper and scissor using dataset provided by Kaggle <https://www.kaggle.com/sanikamal/rock-paper-scissors-dataset-download> Here s the outline of the steps

Step 1 Dataset Preparation Download the rock paper scissors dataset from Kaggle by visiting the provided link and clicking on the Download button Save the dataset to a local directory on your machine Extract the downloaded dataset to a suitable location This will create a folder containing the images for rock paper and scissors

Step 2 Data Preprocessing Import the required libraries TensorFlow Keras NumPy OpenCV and Pandas Load the dataset using OpenCV Iterate through the image files in the dataset directory and use OpenCV s `cv2.imread` function to load each image You can specify the image s file extension e g PNG and directory path Preprocess the images Resize the loaded images to a consistent size using OpenCV s `cv2.resize` function You may choose a specific width and height suitable for your model Prepare the labels Create a list or array to store the corresponding labels for each image rock paper or scissors This can be done based on the file naming convention or by mapping images to their respective labels using a dictionary

Step 3 Model Training Create a convolutional neural network CNN model using Keras Define a CNN architecture using Keras Sequential model or functional API This typically consists of convolutional layers pooling layers and dense layers Compile the model Specify the loss function e g categorical cross entropy and optimizer e g Adam using Keras compile function You can also define additional metrics to evaluate the model s performance Train the model Use Keras fit function to train the model on the preprocessed dataset Specify the training data labels batch size number of epochs and validation data if available This will optimize the model s weights based on the provided dataset Save the trained model Once the model training is complete you can save the trained model to disk using Keras save or save_weights function This allows you to load the model later for predictions or further training

Step 4 Model Evaluation Evaluate the trained model Use Keras evaluate function to assess the model s performance on a separate testing dataset Provide the testing data and labels to calculate metrics such as accuracy precision recall and F1 score This will help you understand how well the model generalizes to new unseen data Analyze the model s performance Interpret the evaluation metrics and analyze any potential areas of improvement You can also visualize the confusion matrix or classification report to gain more insights into the model s predictions

Step 5 Prediction Use the trained model for predictions Load the saved model using Keras load_model function Then pass new unseen images through the model to obtain predictions Preprocess these images in the same way as the training images resize normalize etc Visualize and interpret predictions Display the predicted labels alongside the corresponding images to see how well the model performs You can use libraries like Matplotlib or OpenCV to show the images and their predicted labels Additionally you can calculate the accuracy of the model s predictions on the new dataset In chapter 3 you will learn how to use TensorFlow Keras Scikit

Learn OpenCV Pandas NumPy and other libraries to perform how to classify airplane car and ship using Multiclass image dataset airplane car ship dataset provided by Kaggle <https://www.kaggle.com/abtabm/multiclassimage-dataset-airplane-car> Here are the outline steps: Import the required libraries TensorFlow Keras Scikit Learn OpenCV Pandas NumPy Load and preprocess the dataset Read the images from the dataset folder Resize the images to a fixed size Store the images and corresponding labels Split the dataset into training and testing sets Split the data and labels into training and testing sets using a specified ratio Encode the labels Convert the categorical labels into numerical format Perform one hot encoding on the labels Build MobileNetV2 model using Keras Create a sequential model Add convolutional layers with activation functions Add pooling layers for downsampling Flatten the output and add dense layers Set the output layer with softmax activation Compile and train the model Compile the model with an optimizer and loss function Train the model using the training data and labels Specify the number of epochs and batch size Evaluate the model Evaluate the trained model using the testing data and labels Calculate the accuracy of the model Make predictions on new images Load and preprocess a new image Use the trained model to predict the label of the new image Convert the predicted label from numerical format to categorical

Two Books In One: LEARN FROM SCRATCH VISUAL BASIC .NET WITH MYSQL Vivian Siahaan, Rismon Hasiholan Sianipar, 2020-11-05 BOOK 1 VISUAL BASIC NET AND DATABASE PRACTICAL TUTORIALS This book aims to develop a MySQL driven desktop application that readers can develop for their own purposes to implement library project using Visual Basic .NET In Tutorial 1 you will build a Visual Basic interface for the database This interface will be used as the main terminal in accessing other forms This tutorial will also discuss how to create login form and login table You will create login form Place on the form one picture box two labels one combo box one text box and two buttons In Tutorial 2 you will build a school inventory project where you can store information about valuables in school The table will have nine fields Item description of the item Quantity Location where the item was placed Shop where the item was purchased DatePurchased when the item was purchased Cost how much the item cost SerialNumber serial number of the item PhotoFile path of the photo file of the item and Fragile indicates whether a particular item is fragile or not In Tutorial 3 you will perform the steps necessary to add 5 new tables using phpMyAdmin into Academy database You will build each table and add the associated fields as needed Every table in the database will need input form In this tutorial you will build such a form for Author table Although this table is quite simple only four fields AuthorID Name BirthDate and PhotoFile it provides a basis for illustrating the many steps in interface design SQL statement is required by the Command object to read fields sorted by Name Then you will build an interface so that the user can maintain the Publisher table in the database Academy The Publisher table interface is more or less the same as Author table interface This Publisher table interface only requires more input fields So you will use the interface for the Author table and modify it for the Publisher table In Tutorial 4 you will perform the steps necessary to design and implement title form library member form and book borrowing form You start by designing and testing the basic

entry form for book titles The Title table has nine fields BookTitle PublishYear ISBN PublisherID AuthorID Description Note Subject and Comment Then you will build such a form for Member table This table has twelve fields MemberID FirstName LastName BirthDate Status Ethnicity Nationality Mobile Phone Religion Gender and PhotoFile You need thirteen label controls one picture box six text boxes four combo boxes one check box one date time picker one openFileDialog and one printpreviewdialog You also need four buttons for navigation six buttons for controlling editing features one button for searching member s name and one button to upload member s photo Finally you will build such a form for Borrow table This table has seven fields BorrowID MemberID BorrowCode ISBN BorrowDate ReturnDate and Penalty In this form you need fourteen label controls seven text boxes two combo boxes two date time pickers and one printpreviewdialog You also need four buttons for navigation seven buttons for other utilities one button to generate borrowal code and one button to return book

BOOK 2 LEARN FROM SCRATCH VISUAL BASIC NET WITH MYSQL This book will teach you with step by step approach to develop from scratch a MySQL driven desktop application that readers can develop for their own purposes to implement school database project using Visual Basic NET In Tutorial 1 you will perform the steps necessary to add 8 tables using phpMyAdmin into School database that you will create You will build each table and add the associated fields as needed In this tutorial you will also build login form and main form In Tutorial 2 you will build such a form for Parent table This table has thirteen fields ParentID FirstName LastName BirthDate Status Ethnicity Nationality Mobile Phone Religion Gender PhotoFile and FingerFile You need fourteen label controls two picture boxes six text boxes four combo boxes one check box one date time picker one openFileDialog and one printpreviewdialog You also need four buttons for navigation six buttons for other utilities one button for searching member s name one button to upload parent s photo and button to upload parent s finger Place these controls on the form In Tutorial 3 you will build such a form for Student table This table has fifteen fields StudentID ParentID FirstName LastName BirthDate YearEntry Status Ethnicity Nationality Mobile Phone Religion Gender PhotoFile and FingerFile You need sixteen label controls two picture boxes six text boxes five combo boxes one check box two date time pickers one openFileDialog and one printpreviewdialog You also need four buttons for navigation seven buttons for controlling editing features one button for searching parent s name one button to open parent form one button to upload student s photo and one button to upload student s finger In Tutorial 4 you will build a form for Teacher table This table has fifteen fields TeacherID RegNumber FirstName LastName BirthDate Rank Status Ethnicity Nationality Mobile Phone Religion Gender PhotoFile and FingerFile You need an input form so that user can edit existing records delete records or add new records The form will also have the capability of navigating from one record to another You need sixteen label controls one picture box seven text boxes five combo boxes one check box one date time picker one openFileDialog and one printpreviewdialog You also need four buttons for navigation six buttons for controlling editing features one button for searching teacher s name and one button to upload teacher s photo In Tutorial 5 you will build a form for Subject table This

table has only three fields SubjectID Name and Description You need four label controls four text boxes one openfiledialog and one printpreviewdialog You also need four buttons for navigation seven buttons for utilities and one button for searching subject name Place these controls on the form You will also build a form for Grade table This table has seven fields GradeID Name SubjectID TeacherID SchoolYear TimeStart and TimeFinish You need to add seven label controls one text box four comboboxes and two date time pickers You also need four buttons for navigation seven buttons for controlling editing features one button to open subject form and one button to open teacher form In Tutorial 6 you will build a form for Grade_Student table This table has only three fields Grade_StudentID GradeID and StudentID You need an input form so that user can edit existing records delete records or add new records The form will also have the capability of navigating from one record to another You need two label controls and two comboboxes You also need four buttons for navigation seven buttons for controlling editing features one button to open grade form and one button to open student form **FULL SOURCE CODE:**

SQL SERVER FOR STUDENTS AND DATA SCIENTISTS WITH PYTHON GUI Vivian Siahaan,Rismon Hasiholan Sianipar,2022-10-13 In this project we provide you with the SQL SERVER version of SQLite sample database named chinook The chinook sample database is a good database for practicing with SQL especially PostgreSQL The detailed description of the database can be found on <https://www.sqlitetutorial.net/sqlite-sample-database/> The sample database consists of 11 tables The employee table stores employees data such as employee id last name first name etc It also has a field named ReportsTo to specify who reports to whom customers table stores customers data invoices The artist table stores artists data It is a simple table that contains only the artist id and name The album table stores data about a list of tracks Each album belongs to one artist However one artist may have multiple albums The media_type table stores media types such as MPEG audio and AAC audio files genre table stores music types such as rock jazz metal etc The track table stores the data of songs Each track belongs to one album playlist the distribution of amount by year quarter month week day and hour the bottom top 10 sales by employee the bottom top 10 sales by customer the bottom top 10 sales by customer the bottom top 10 sales by artist the bottom top 10 sales by genre the bottom top 10 sales by play list the bottom top 10 sales by customer city the bottom top 10 sales by customer city the bottom top 10 sales by customer city the payment amount by month with mean and EWM the average payment amount by every month and amount payment in all years [DATA ANALYSIS USING JDBC AND SQLITE WITH OBJECT-ORIENTED APPROACH AND APACHE NETBEANS IDE](#) Vivian Siahaan,Rismon Hasiholan Sianipar,2023-04-12

In this project you will use SQLite version of Northwind database which is a sample database that was originally created by Microsoft and used as the basis for their tutorials in a variety of database products for decades The Northwind database contains the sales data for a fictitious company called Northwind Traders which imports and exports specialty foods from around the world The Northwind database is an excellent tutorial schema for a small business ERP with customers orders inventory purchasing suppliers shipping employees and single entry accounting You can download the sample database from

<https://viviansiahaan.blogspot.com/2023/04/data-analysis-using-jdbc-and-sqlite.html> In this project you will design the form for every table and you will plot the territory distribution by region the employee distributions based on city country title and region the employee distributions based on birth date hire date and employee name the employee distributions based on city country territory and region the three supplier distributions based on city region and country the product distributions based on city region country categorized unit price categorized units in stock and categorized units on order the customer distributions based on city region and country the order and freight distributions based on year month and week the order and freight distributions based on day quarter and ship country the order and freight distributions based on ship region ship city and ship name the order and freight distributions based on shipper company customer company and customer city the order and freight distributions based on customer country employee name and employee title the sales distributions based on year month week day quarter and ship country the sales distributions based on ship region ship city ship name shipper company customer company and customer city the sales distributions based on customer region customer country employee name employee title employee city and employee country the sales distributions based on product name category name supplier company supplier city supplier region and supplier country

[DATA ANALYSIS PROJECTS WITH MYSQL, SQLITE, POSTGRESQL, AND SQL SERVER USING PYTHON GUI](#) Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-10-26

PROJECT 1 FULL SOURCE CODE POSTGRESQL AND DATA SCIENCE FOR PROGRAMMERS WITH PYTHON GUI This project uses the PostgreSQL version of MySQL based Sakila sample database which is a fictitious database designed to represent a DVD rental store. The tables of the database include film, film_category, actor, film_actor, customer, rental, payment, and inventory among others. You can download the database from <https://dev.mysql.com/doc/sakila/en/>. In this project you will write Python script to create every table and insert rows of data into each of them. You will develop GUI with PyQt5 to each table in the database. You will also create GUI to plot case distribution of film release year, film rating, rental duration, and categorize film length. plot rating variable against rental_duration variable in stacked bar plots, plot length variable against rental_duration variable in stacked bar plots, read payment table, plot case distribution of Year, Day, Month, Week, and Quarter of payment, plot which year, month, week, days of week, and quarter have most payment amount, read film list by joining five tables: category, film_category, film_actor, film, and actor, plot case distribution of top 10 and bottom 10 actors, plot which film title have least and most sales, plot which actor have least and most sales, plot which film category have least and most sales, plot case distribution of top 10 and bottom 10 overdue costumers, plot which store have most sales, plot average payment amount by month with mean and EWM, and plot payment amount over June 2005.

PROJECT 2 FULL SOURCE CODE MYSQL FOR STUDENTS AND PROGRAMMERS WITH PYTHON GUI In this project we provide you with a MySQL version of an Oracle sample database named OT which is based on a global fictitious company that sells computer hardware including storage, motherboard, RAM, video card, and CPU. The company maintains the product information such as name, description, standard

cost list price and product line It also tracks the inventory information for all products including warehouses where products are available Because the company operates globally it has warehouses in various locations around the world The company records all customer information including name address and website Each customer has at least one contact person with detailed information including name email and phone The company also places a credit limit on each customer to limit the amount that customer can owe Whenever a customer issues a purchase order a sales order is created in the database with the pending status When the company ships the order the order status becomes shipped In case the customer cancels an order the order status becomes canceled In addition to the sales information the employee data is recorded with some basic information such as name email phone job title manager and hire date In this project you will write Python script to create every table and insert rows of data into each of them You will develop GUI with PyQt5 to each table in the database You will also create GUI to plot case distribution of order date by year quarter month week and day the distribution of amount by year quarter month week day and hour the distribution of bottom 10 sales by product top 10 sales by product bottom 10 sales by customer top 10 sales by customer bottom 10 sales by category top 10 sales by category bottom 10 sales by status top 10 sales by status bottom 10 sales by customer city top 10 sales by customer city bottom 10 sales by customer state top 10 sales by customer state average amount by month with mean and EWM average amount by every month amount feature over June 2016 amount feature over 2017 and amount payment in all years

PROJECT 3 ZERO TO MASTERY THE COMPLETE GUIDE TO LEARNING SQLITE AND PYTHON GUI In this project we provide you with the SQLite version of The Oracle Database Sample Schemas that provides a common platform for examples in each release of the Oracle Database The sample database is also a good database for practicing with SQL especially SQLite The detailed description of the database can be found on <http://luna.ext.oracle.com/server/112/e10831/diagrams.htm> insertedID0 The four schemas are a set of interlinked schemas This set of schemas provides a layered approach to complexity A simple schema Human Resources HR is useful for introducing basic topics An extension to this schema supports Oracle Internet Directory demos A second schema Order Entry OE is useful for dealing with matters of intermediate complexity Many data types are available in this schema including non scalar data types The Online Catalog OC subschema is a collection of object relational database objects built inside the OE schema The Product Media PM schema is dedicated to multimedia data types The Sales History SH schema is designed to allow for demos with large amounts of data An extension to this schema provides support for advanced analytic processing The HR schema consists of seven tables regions countries locations departments employees jobs and job_histories This book only implements HR schema since the other schemas will be implemented in the next books

PROJECT 4 FULL SOURCE CODE SQL SERVER FOR STUDENTS AND DATA SCIENTISTS WITH PYTHON GUI In this project we provide you with the SQL SERVER version of SQLite sample database named chinook The chinook sample database is a good database for practicing with SQL especially PostgreSQL The detailed description of the database can be found on <https://www.sqlitetutorial.net/>

net sqlite sample database The sample database consists of 11 tables The employee table stores employees data such as employee id last name first name etc It also has a field named ReportsTo to specify who reports to whom customers table stores customers data invoices The artist table stores artists data It is a simple table that contains only the artist id and name The album table stores data about a list of tracks Each album belongs to one artist However one artist may have multiple albums The media_type table stores media types such as MPEG audio and AAC audio files genre table stores music types such as rock jazz metal etc The track table stores the data of songs Each track belongs to one album playlist the distribution of amount by year quarter month week day and hour the bottom top 10 sales by employee the bottom top 10 sales by customer the bottom top 10 sales by customer the bottom top 10 sales by artist the bottom top 10 sales by genre the bottom top 10 sales by play list the bottom top 10 sales by customer city the bottom top 10 sales by customer city the bottom top 10 sales by customer city the payment amount by month with mean and EWM the average payment amount by every month and amount payment in all years

Enjoying the Track of Expression: An Emotional Symphony within **Mathematica Cookbook**

In some sort of taken by screens and the ceaseless chatter of immediate communication, the melodic elegance and psychological symphony developed by the written word usually disappear into the backdrop, eclipsed by the constant sound and disturbances that permeate our lives. Nevertheless, located within the pages of **Mathematica Cookbook** a stunning literary treasure filled with fresh thoughts, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, that charming masterpiece conducts readers on an emotional journey, skillfully unraveling the hidden tunes and profound influence resonating within each carefully crafted phrase. Within the depths of this touching assessment, we will discover the book is central harmonies, analyze its enthralling publishing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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