

Laboratory Investigations 3rd Edition Answers

[illegible]

```

# 1. Import the necessary libraries
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import warnings
warnings.filterwarnings('ignore')

# 2. Load the dataset
url = "https://raw.githubusercontent.com/jbrownlee/Datasets/master/autosmpg主要数据.csv"
data = pd.read_csv(url)

# 3. Explore the data
print(data.shape)
print(data.columns)
print(data.head())

# 4. Data Cleaning
data.dropna(inplace=True)
data = data.reset_index(drop=True)

# 5. Data Preprocessing
# Convert 'cyl' to a categorical variable
data['cyl'] = data['cyl'].astype('category')

# 6. Feature Engineering
# Create a new feature 'displacement' from 'dis' and 'lit'
data['displacement'] = data['dis'] * data['lit']

# 7. Data Analysis
# Group by 'cyl' and calculate the mean of 'displacement'
grouped = data.groupby('cyl')['displacement'].mean()

# 8. Data Visualization
# Scatter plot of 'displacement' vs 'cyl'
plt.scatter(data['cyl'], data['displacement'])
plt.title('Scatter plot of displacement vs cyl')
plt.show()

# 9. Model Building
# Split the data into training and testing sets
from sklearn.model_selection import train_test_split
X = data[['cyl', 'dis', 'lit']]
y = data['displacement']
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)

# 10. Model Evaluation
# Train a Linear Regression model
from sklearn.linear_model import LinearRegression
model = LinearRegression()
model.fit(X_train, y_train)

# 11. Model Prediction
# Predict the displacement for the test set
y_pred = model.predict(X_test)

# 12. Model Evaluation Metrics
# Calculate the Mean Squared Error (MSE)
mse = np.mean((y_test - y_pred)**2)
print("Mean Squared Error (MSE):", mse)

# 13. Model Interpretation
# Print the coefficients of the model
print("Coefficients:", model.coef_)
print("Intercept:", model.intercept_)

```

Laboratory Investigations 3rd Edition Answers

S Ben Porath



Laboratory Investigations 3rd Edition Answers:

Laboratory Investigations 3rd Edition Answers Book Review: Unveiling the Power of Words

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