

Unit 3 Solutions

Exercise 3

```

1  # Import the necessary libraries
2  import pandas as pd
3  import numpy as np
4  from sklearn.preprocessing import StandardScaler
5  from sklearn.model_selection import train_test_split
6  from sklearn.metrics import mean_squared_error, r2_score
7  from sklearn.linear_model import LinearRegression
8  from sklearn.ensemble import RandomForestRegressor
9
10 # Load the dataset
11 data = pd.read_csv('data.csv')
12
13 # Split the data into features and target variable
14 X = data[['feature1', 'feature2', 'feature3']]
15 y = data['target']
16
17 # Split the data into training and testing sets
18 X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)
19
20 # Standardize the features
21 scaler = StandardScaler()
22 X_train = scaler.fit_transform(X_train)
23 X_test = scaler.transform(X_test)
24
25 # Train the Linear Regression model
26 lr = LinearRegression()
27 lr.fit(X_train, y_train)
28
29 # Predict the target variable for the test set
30 y_pred_lr = lr.predict(X_test)
31
32 # Calculate the Mean Squared Error (MSE) and R-squared (R2) for the Linear Regression model
33 mse_lr = mean_squared_error(y_test, y_pred_lr)
34 r2_lr = r2_score(y_test, y_pred_lr)
35
36 # Train the Random Forest model
37 rf = RandomForestRegressor()
38 rf.fit(X_train, y_train)
39
40 # Predict the target variable for the test set
41 y_pred_rf = rf.predict(X_test)
42
43 # Calculate the Mean Squared Error (MSE) and R-squared (R2) for the Random Forest model
44 mse_rf = mean_squared_error(y_test, y_pred_rf)
45 r2_rf = r2_score(y_test, y_pred_rf)
46
47 # Print the results
48 print('Linear Regression MSE: ', mse_lr, 'R2: ', r2_lr)
49 print('Random Forest MSE: ', mse_rf, 'R2: ', r2_rf)

```

Exercise 4

C Sharp Solutions Manual

Jon Rogawski



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Solutions Manual to Accompany Organic Chemistry Jonathan Clayden, Stuart Warren, Stuart G. Warren, 2013 This text contains detailed worked solutions to all the end of chapter exercises in the textbook Organic Chemistry Notes in tinted boxes in the page margins highlight important principles and comments *Solutions Manual to accompany An Introduction to Numerical Methods and Analysis* James F. Epperson, 2021-09-03 A solutions manual to accompany An Introduction to Numerical Methods and Analysis Third Edition An Introduction to Numerical Methods and Analysis helps students gain a solid understanding of a wide range of numerical approximation methods for solving problems of mathematical analysis Designed for entry level courses on the subject this popular textbook maximizes teaching flexibility by first covering basic topics before gradually moving to more advanced material in each chapter and section Throughout the text students are provided clear and accessible guidance on a wide range of numerical methods and analysis techniques including root finding numerical integration interpolation solution of systems of equations and many others This fully revised third edition contains new sections on higher order difference methods the bisection and inertia method for computing eigenvalues of a symmetric matrix a completely re written section on different methods for Poisson equations and spectral methods for higher dimensional problems New problem sets ranging in difficulty from simple computations to challenging derivations and proofs are complemented by computer programming exercises illustrative examples and sample code This acclaimed textbook Explains how to both construct and evaluate approximations for accuracy and performance Covers both elementary concepts and tools and higher level methods and solutions Features new and updated material reflecting new trends and applications in the field Contains an introduction to key concepts a calculus review an updated primer on computer arithmetic a brief history of scientific computing a survey of computer languages and software and a revised literature review Includes an appendix of proofs of selected theorems and author hosted companion website with additional exercises application models and supplemental resources *Classical Mechanics Student Solutions Manual* John R Taylor, Jeff Adams, Greg Francis, 2020-07-10 This is the authorized Student Solutions Manual for John R Taylor s internationally best selling textbook Classical Mechanics In response to popular demand University Science Books is delighted to announce the one and only authorized Student Solutions Manual for John R Taylor s internationally best selling textbook Classical Mechanics This splendid little manual by the textbook s own author restates the odd numbered problems from the book and the provides crystal clear detailed solutions Of course the author strongly recommends that students avoid sneaking a peek at these solutions until after attempting to solve the problems on their own But for those who put in the effort this manual will be an invaluable study aid to help students who take a wrong turn who can t go any further on their own or who simply wish to check their work Now available in print and ebook formats **Student's Solutions Manual to Accompany Organic Chemistry** Thomas J. Cogdell, 2012-11-05 Student s Solutions Manual to Accompany Organic Chemistry is a 27 chapter

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