Task 1

Do the following

Import California Housing dataset

Split the sample into train : test with a ratio of 70:30 and keeping random\_state=42

Task 2

Import Linear Regression Model

Fit the data split earlier to the model Test and calculate the score

Task 3

Import diabetes dataset

Split the sample into train : test with a ratio of 60:40 Keep random\_state = 42

Task 4

Import Linear Regression Model with intercept Fit the data split earlier to the model

Test and calculate the score with intercept

Task 5

Import Linear Regression Model without intercept Fit the data split earlier to the model

Test and calculate the score without intercept

Task 6

Print value of intercept of the model trained on diabetes data

Print the value of the coefficients (Note this will print an array with 10 values which is the same as shape of X)

Task 7

Load diabetes dataset

Split the dataset with test\_size = 0.4

Train with SGDRegressor and calculate score

Students can save own attendance in moodle for 26th August 2024. Password is assignment2608