DATE: 24-8-2021

COURSE 7 FINAL ACTIVITY

Prediction of marks of a student based on the number of hours he/she studies

https://raw.githubusercontent.com/Kushal997-das/THE-SPARKS-FOUNDATION/master/Prediction%20using%20Supervised%20ML/student_scores%20-%20student_scores.csv

Task
Read the data from the provided link
Understand the data by reading first 5 and last 5 records from the dataset
Check the shape of data
Check if there is any null values
Display the summary of the dataset
Group the data using score and hours, then Using bar chart ,plot score vs hours. The next phase is to enter distribution scores and plot them according to the requirement, here we are going to enter the title, x_label, and y_label, and show it according to the desired result.
Visualize distribution of data using scatter plot
Prepare the data by splitting it into Training and Test set
Plot the regression line
Plot the training and test data . Predict the score and compare predicted and actual score
Predict accuracy using r2square
Predict the percentage grade of a student if study hours are 9.25
Evaluate the model: Calculate Mean absolute error, mean squared error, root mean squared error
Import seaborn and plot the distribution as well
Print actual vs predicted percentage score

Task
Apply ridge and grid search to improvise your model