

Interview Question

Question

edureka!

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Predict Graduate University Admissions Using Regression

To download the dataset, <https://www.kaggle.com/mohansacharya/graduate-admissions>

Problem Statement: Analyze the dataset given and use regression techniques to measure the graduation rate of students in a university.

Dataset Description:

This dataset was created to predict graduate admissions for an Indian based on certain test scores. It contains the following attributes:

- GRE Scores (out of 340)
- TOEFL Scores (out of 120)
- University Rating (out of 5)
- Statement of Purpose (out of 5)
- Letter of Recommendation Strength (out of 5)
- Undergraduate GPA (out of 10)
- Research Experience (either 0 or 1)
- Chance of Admit (ranging from 0 to 1)

Tasks to be performed:

Task 1: Download the Dataset from Dropbox: [!wget https://www.dropbox.com/s/f1x86l7xkdkz6ke/Admission_Predict.csv](https://www.dropbox.com/s/f1x86l7xkdkz6ke/Admission_Predict.csv)

Task 2: Import Required Libraries

Task 3: Load and Analyze the Dataset (Analyze the data using Pandas Profiling and sweetviz)

Task 4: Pre-process the data by removing outliers, dropping columns, etc.

Task 5: Data Visualization with Plotly, Seaborn, or Matplotlib. Visualize necessary data

Task 6: If necessary, scale the data using a min-max scaler or other technique and then use linear regression by dividing the dataset appropriately.

Task 7: Give the evaluation score of the model and find the pairwise correlation between columns