**RV College of Engineering Knowledge Solutions India**

**Internship Program**

**Course: Machine Learning &AI with Python**

**Batch-11**

**Group-9**

**Topic-1(Admission Prediction)**

**By: Narsepalli Pradyumna**

**RV College of Engineering**

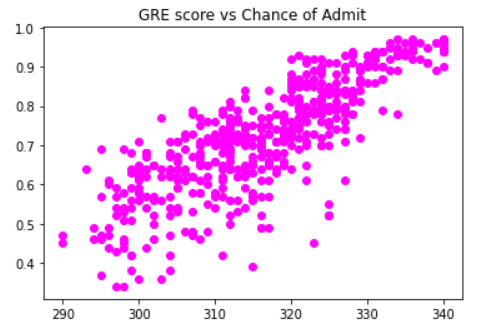
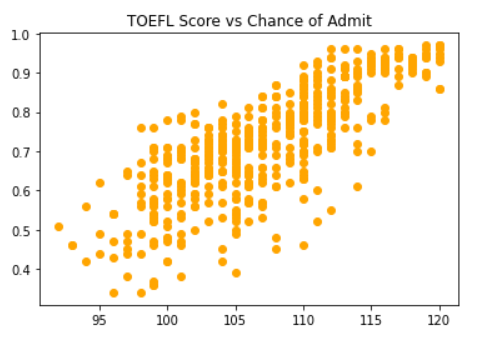
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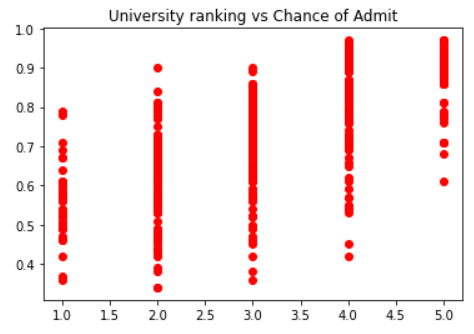
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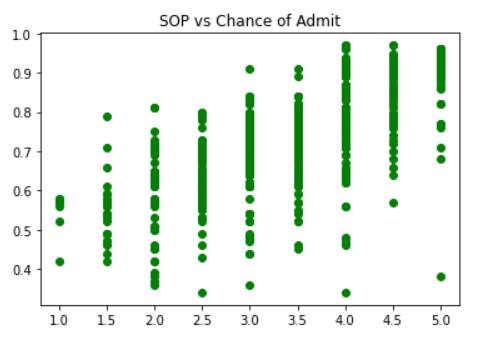
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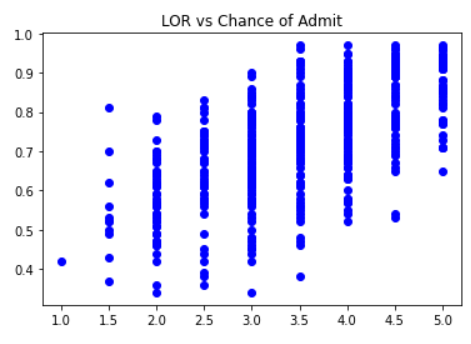
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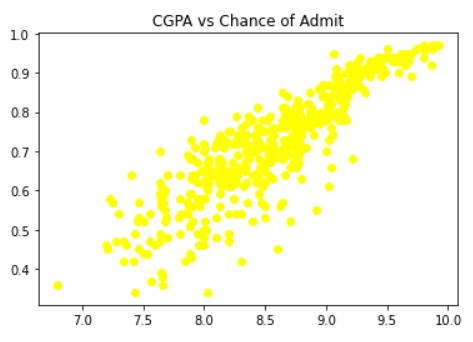
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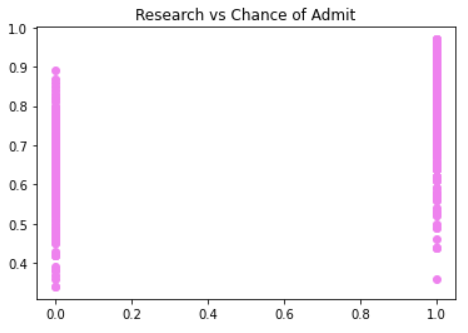


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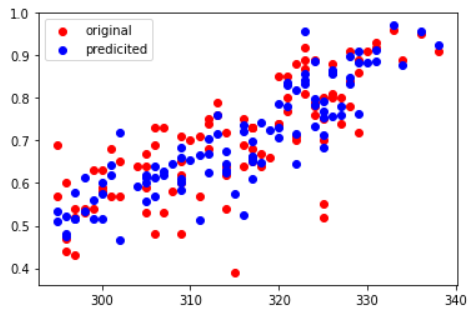
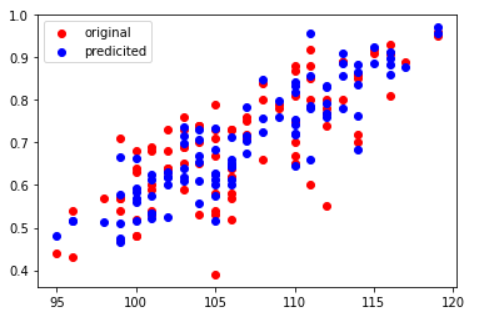


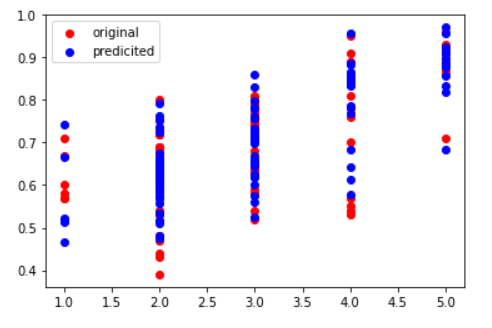
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2. CGPA vs Chance of Admit



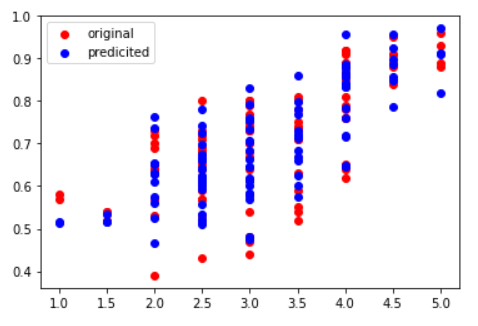
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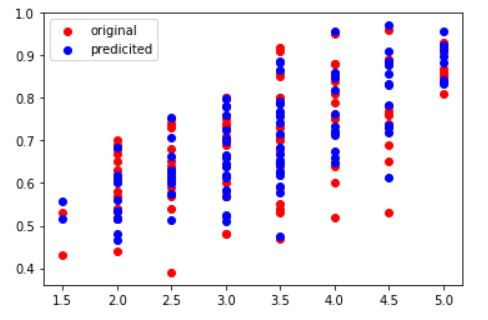
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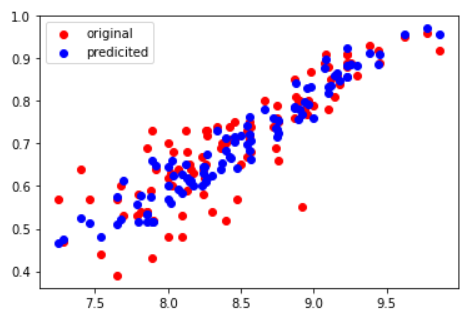
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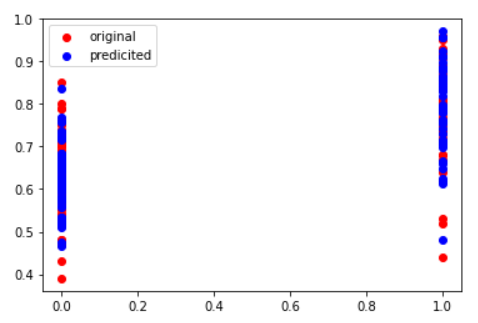
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* 1. CGPA vs Chance of Admit



* 1. Research vs Chance of Admit



**Abstract**

The project is concerned about the probability of getting a seat in a prestigious university depending on scores in GRE and TOEFL exams and their LORs, SOPs and CGPAs from their previous study institutes. We made an ML Project to determine the chance of admit and predict different sets.

**Chapters**

1. **Introduction**

Our graduate school application provides the admissions committee with a great deal of information about you that cannot be found elsewhere in your graduate application. The other parts of your graduate school application tell the admissions committee about your grades (i.e., transcript), your academic promise (i.e., GRE scores), and what your professors think of you (i.e., recommendation letters). Despite all of this information, the admissions committee does not learn much about you as an individual. Therefore, by predicting the colleges at our grasp helps us in applying to these colleges.

This project is for this prediction i.e. the chance of admittance in a certain university.

1. **Libraries used**

NumPy

Pandas

Matplotlib

Sklearn

Statsmodels

1. **Algorithm**

**Problem Description:**

We have the dataset created for prediction of Graduate Admissions from an Indian perspective containing 500 entries.

Since we need to find the Chance of Admit, so it is the dependent variable, and the other seven variables are independent variables. Below are the main steps of deploying the MLR model:

1. **Implementation of Multiple Linear Regression model**
2. Data Pre-processing Steps
3. Fitting the MLR model to the training set
4. Predicting the result of the test set

Step-1: Data Pre-processing Step:

The very first step is [data pre-processing](https://www.javatpoint.com/data-preprocessing-machine-learning). This process contains the below steps:

* Importing libraries: Firstly, we will import the library which will help in building the model.
* Importing Datasets: Now we will import the dataset (Admission\_Predict\_Ver1.1), which contains all the variables.
* Extracting Dependent and Independent Variables:
* Creating Test and Train data:

### Step-2: Fitting our MLR model to the Training set

### Step-3: Prediction of Test set results

### Implementation Steps for Random Forest Regressor

1. Data Pre-processing step
2. Fitting the Random forest algorithm to the Training set
3. Predicting the test result

**Conclusion**

We are able to predict the colleges in our grasp with a minimum R-Squared error of 0.81637 with Random Forest Regressor and 0.829 with Multiple Linear Regression.