Graduate Admission Prediction

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ABSTRACT

Informal description (ill posed problem)

This model can predict the chance of getting into universities abroad based on their GRE, TOEFL and C.G.P.A Scores and the rankings of their preferred universities.

Formal description

A computer program is said to learn from experience *E* with respect to some class of tasks *T* and performance measure *P*, if its performance at tasks in *T*, as measured by *P*, improves with experience *E*.

- ***Task*** *(T): Predict the chances of student getting admission in the preferred universities based on their Performance.*
- ***Experience*** *(E): A dataset which contains Previous students scores and the universities they got into*
- ***Performance*** *(P): Percentage of the total number of students getting admission in the predicted university out of all the students.*

1. INTRODUCTION

Motivation:
To apply for a master's degree is a very expensive and intensive work. With this kernel, students will guess their capacities and they will decide whether to apply for a master's degree or not.

So, basically this set is about the Graduate Admissions data i.e. Given a set of standardized scores like GRE, TOEFL, SOP standard scores, LOR standard scores, what is probability of gaining admission into a particular school.

Benefits of solution:
This Prediction will be more useful for the students who are willing to join in foreign universities, according to their Scores, this will predict in which universities they will have a better chance of getting an admission.

Solution Use
Once they get the predictions of the universities, they will have an idea of which of the universities they can apply to for a better chance of getting an admission

2. Dataset finalization

Dataset 1:
Source(Kaggle)

1.What is the data about?

This data set is about the students who applied to the universities and their chance of getting admitted.

2.What are the number of features and describe each of the features and explain the importance?

This dataset contains:

- **GRE Scores (290 to 340)**

  The Graduate Record Examinations (GRE) is a the most popular test for graduate schools' admission, it consists of three sections : Analytical Writing, Verbal and Quantitative

- **TOEFL Scores (92 to 120)**

  Test of English as a Foreign Language (TOEFL) is a very popular test for English language amongst universities worldwide, it is marked based on three sections: Reading, Listening, Speaking, and Writing, each one of them is out of 30, yielding a maximum score of 120 and a minimum of 0.

- **University Rating (1 to 5)**

  The rating of the university the student completed his undergraduate degree from.

- **Statement of Purpose (1 to 5)**

  Statement of Purpose (SOP) is a letter written by the student himself to state his purpose and motivation for completing a graduate degree in addition to his goals while and after he completes his study. Many universities find this letter significant because it better describe the student from a personal perspective.

- **Letter of Recommendation Strength (1 to 5)**

  Letter of Recommendation (LOR) is a letter written by a person that knows the student and recommends that the university accept his admission, this person can be a professor in his undergraduate degree or a professional whom the student have worked with.

- **Undergraduate CGPA (6.8 to 9.92)**

  To Join in any foreign university the minimum cut-off range is 6.89 and the maximum cut-off range is 9.92

- **Research Experience (0 or 1)**

  To Join in any foreign university the minimum Research Experience must have 0 or 1

- **Chance of Admit (0.34 to 0.97)**

  If all the conditions are satisfied for a students then the chance of getting admission is 0.34% to 0.97%