
Machine Learning Based Graduate Admission Prediction

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1 Background

Nowadays, more and more Chinese students start to take graduate study overseas, usually in the US, Canada, the UK and somewhere else. Then, the problem just comes with it. How could they know which graduate school is the best fit, or more possibly offers admission?

Students usually finish their graduate application in two ways. The first one is to find an agency for help. Such agencies collect application data for year and give advice based on history cases and percentage on multiple indicators. However, misjudgment always happens just because graduate admission consists of complex evaluation in many areas. The second type of application is called DIY-application, finished by students themselves. Due to lack of information, many students lose better offers.

During the application evaluation, information in many fields of the student is considered, including TOEFL score, GRE score, GPA, undergraduate school, work experience, research experience and other supplementary materials. Looking in machine learning way, these indicators can be features of a certain model. We can use massive admission and rejection cases as training data to fit the admission model of a certain graduate program. Till now, ML techniques are not widely used in this area. Comparing to human judgment and finding similar cases, many machine learning models seem to have a better prediction such as neural networks and decision tree.

1.1 Style

1.2 Retrieval of style files

References