## **LITERATURE SURVEY**

## <u>ON</u>

## APPLIED DATA SCIENCE - UNIVERSITY ADMIT ELIGIBILITY PREDICTOR

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## **ABSTRACT**

Many students who aspire to pursue a Master's degree program from a suitably good university turn towards famous coaching institutes and let them take care of everything, like preparing for exams, building an SOP and LOR, and training for visa interviews and searching for the right universities as well. A few of you may prefer to do all these things on your own. In such situations, searching for the right university is a very daunting task. We search for universities that fit our profile on those so-called "university hunt" websites with all the data about universities around the world. These websites have a section known as "University Predictor," which is most of the time a paid section you need to fill your information to make use of that section. I present how to build your own University Admit Predictor, which gives your chances of getting admitted to the desired university. You can also use this model before giving exams to know beforehand what the required score is to gain admission to your dream university. Accordingly, you can set your targets for studies.

By the end of this tutorial, you will be able to build and train a linear regression model to predict the chance of admission to a particular university.

(Bibodi et al. (n.d.))  George J Kahaly  Work that has previous on predicting the char	of the
students enrolmen universities. There has several project and performed on topics re students admission universities. It is multiple machine le models to create a syst would help the stude shortlist the universities to create a syst would help the stude shortlist the universities of them a second model was created help the colleges to deen rolment of the second model was created by the colleges to deen rolment of the second model was created by the colleges to deen rolment of the second model was created by the colleges to deen rolment of the second model was created by the colleges of the success of an apple and multiple classification algorithms like Definition of the second multiple classification for the se	ly done nces of t in we been studies lated to into used earning em that ents to resities also a rated to cide on student. In was elihood ication, fication recision, Nave were aluated racy to ates for of this id only roefl.

(Thi et al. (2007))	Bernadette Biondi	Bayesian Networks were used
		to create a decision support
		system for evaluating the
		application submitted by
		international students in the
		university. This model was
		designed to predict the
		performance of the aspiring
		students by comparing them
		with the performance of
		students currently studying in
		the university and had similar
		profile during their
		application. In this way based
		on the current students profile
		the model predicted whether
		the aspiring student should be
		granted admission to the
		university. Since the
		comparisons were made only
		with the students who were
		already admitted in the
		university and the data of the
		students who were denied
		admission were not included
		in the research this model
		proved to be less efficient due
		to the problem of class
		imbalance

(Abdul	Fatah	S;	M	R Paul	A model that can provide the
(2012))				Robertson	list of universities/colleges
					where the which best suitable
					for a student based on their
					academic records and college
					admission criteria. The model
					was developed by applying
					data mining techniques and
					knowledge discovery rules to
					the already existing in-house
					admission prediction system
					of the university. (Mane
					(2016)) conducted a similar
					research that predicted the
					chance of a student getting
					admission in college based on
					their Senior Secondary
					School, Higher Secondary
					School and Common
					Entrance Examination scores
					using the pattern growth
					approach to association rule
					mining. The performance of
					both the models was good the
					only drawback was the
					problem statement was single
					university-centric.

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(Mishra and Sahoo (2016))	Caraccio	A research from a university point of view to predict the likelihood of a student enrolling in the university after the have enquired about of courses in the university. They used K-Means algorithm for clustering the students based on different factors like feedback, family income, family occupation, parents qualification, motivation etc. to predict if the student will enroll at the university or not. Depending upon the similarity of the attributes among the students they were grouped into clusters and decisions were made. The objective of the model was to increase the enrolment of the students in the university.
(Eberle et al. (n.d.))	Rotondi	Machine learning and predictive modelling to develop a model that to evaluate the admission policies and standards in the Tennessee Tech University. A well know version of the C4.5 algorithm, J48 was used to create the model. Like the models mentioned above they used the different factors of the student profile to evaluate the chances of their admission in the university. The model worked well in predicting the true positive scenarios where the student was had good profile to secure the admission, but it failed in efficiently identifying the true negatives because of which student who does not satisfy the defined criteria.

(Jamison (2017))	Monzani	In research conducted the yield of college admission was predicted using machine learning techniques. Yield rate can be defined as the rate at which the students who have been granted admission by the university actually enrol for the course. Multiple machine learning algorithms like Random Forest, Logistic Regression and SVM were used to create the model; the models were compared based on their performance and accuracy, Random Forest outperformed the other models with 86% accuracy and was thus used to create the system. The factors that proved to be significant in predicting successful application were also highlighted.

communication and several sensors. Real-time data access can be done by using remote monitoring and Internet of Things (IoT) technology. Data collected at the apart site can be displayed in a visual format on a server PC with the help of Spark streaming analysis through Spark MLlib, Deep learning neural network models, Belief Rule Based (BRB) system and is also compared with standard values.