**INTELLIGENT ADMISSION: THE FUTURE OF UNIVERSITY DECISION MAKING WITH MACHINE LEARNING**

**BUISNEES PROBLEM:**

University admission is the process by which students are selected to attend a college or university. The process typically involves several steps, including submitting an application, taking entrance exams, and participating in interviews or other evaluations. Students are often worried about their chances of admission in University. the university admission process for students can be demanding, but by being well-informed, prepared, and organized, students can increase their chances of being admitted to the university of their choice. The aim of this project is to help students in short listing universities with their profiles. Machine learning algorithms are then used to train a model on this data, which can be used to predict the chances of future applicants being admitted. With this project, students can make more informed decisions about which universities to apply to, and universities can make more efficient use of their resources by focusing on the most promising applicants.The predicted output gives them a fair idea about their admission chances in a particular university. This analysis should also help students who are currently preparing or will be preparing to get a better idea.

**BUSINESS REQUIREMENTS**

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| **SOFTWARE REQUIREMENTS** | **PYCHARM OR JUPYTER NOTEBOOK**  **,EITHER WE CAN USE GOOGLE COLAB** |
| **STORAGE** | **MINIMUM 512 GB** |

**Literature Survey**

[1] DINO IENCO, RUGGERO G. PENSA and ROSA MEO, “From Context to Distance: Learning Dissimilarity for categorical Data Clustering,” Journal Vol. X. 10 2009, pages 1- 10.

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[3] Elham S.Khorasani, Zhao Zhenge, and John Champaign. AMarkov Chain Collaborative Filtering Model for Course Enrollment Recommendations: 2016, “IEEE International Conference on Big Data (Big Data)”, P. 3484 – 3490.

[4] Hana Bydžovská. Course Enrollment Recommender System: Proceeding of the 9th International Conference on Educational Data Mining, P. 312 – 317.

[5] Jamil Itmazi and Miguel Megias (2008), Using recommendation Systems in Course Management Systems to Recommend Learning Objects, P. 234 – 240.

[6] Queen Esther Booker (2009). A Student Program Recommendation System Prototype: Issues in Information Systems, P. 544 - 551.

[7] Akrivi Vlachou, Christos Doulkerids, Kjetil Norvag, and Yannis Kotidis, “Identifying the Most Influential Data Objects with Reverse Top-k Queries,” Proceedings ofthe VLDB Endowment, Vol. 3, No. 1, Copy right 2010 VLDB Endowment 2150-8097/10/09.

[8] Usue Mori, Alexander Mendiburu, and Jose A.Lozano, “Similarity Measure Selection for Clustering Time Series databases,” IEEE Transactions on Knowledge and Data Engineering. Vol. 28. No. 1. January 2016.

[9] Yung-Shen Lin, Jung-Yi Jiang, and Shie-Jue Lee, “A Similarity Measure for Text Classification and Clustering,” IEEE Transactions on Knowledge and Data Engineering. Vol. 26. No. 7. July 2014. [14] Charif Haydar, Anne Boyer, “A New Statistical Density Clustering Algorithm based on Mutual Vote and Subjective Logic Applied to Recommender Systems”, UMAP 2017 Full Paper UMAP’17, July 9- 12, 2017, Bratislava, Slovakia.

[10] Reddy, M. Y. S., & Govindarajulu, P. (2018). College Recommender system using student’preferences/voting: A system development with empirical study. INTERNATIONAL JOURNAL OF COMPUTER SCIENCE AND NETWORK SECURITY, 18(1), 87-98.

**Social or Business Impact**

*Every year millions of students apply to universities to begin their educational life. Most of them don’t have proper resources, prior knowledge and are not cautious, which in turn creates a lot of problems as applying to the wrong university/college, which further wastes their time, money and energy. With the help of our project, we have tried to help out such students who are finding difficulty in finding the right university for them.*

*It is very important that a candidate should apply to colleges that he/she has a good chance of getting into, instead of applying to colleges that they may never get into. This will help in reduction of cost as students will be applying to only those universities that they are highly likely to get into.*

*Our prepared models work to a satisfactory level of accuracy and may be of great assistance to such people. This is a project with good future scope, especially for students of our age group who want to pursue their higher education in their dream college.*