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

**Business 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.*

*The business requirement for a machine learning model to predict chances of student admission in the university. Artificial intelligence has been evolving rapidly in recent years, and many MSC CS degree programs offer degrees in the field. While there is no single correct method to learn about artificial intelligence, pursuing an MSC CS give can give you the critical skills & knowledge you need to succeed in this rapidly growing field. MSC CS program in AI typically cover machine learning, natural language processing, and knowledge representation. Students will also learn about algorithms, data mining, and decision trees. With an MSC CS in AI, graduates will be prepared to work in various industries, including schooling inspector and it company.*

**Business Requirement**

Artificial neural networks, usually simply called neural networks or neural nets, are computing systems inspired by the biological neural networks that constitute animal brains. An ANN is based on a collection of connected units or nodes called artificial neurons, which loosely model the neurons in a biological brain

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| **Particular** | **Value** |
| Degree Name | MSC CS in Artificial Intelligence |
| *Level of degree* | *Post graduate* |
| *Degree Duration* | *2 years* |
| *Eligibility Criteria* | *Graduation from a recognized university with a minimum aggregate score of 60%* |
| *Job profiles* | *Data science, software developer* |
| *Examination scheme* | *Semester system* |
| *Entrance Exam* | *CUET, CUSAT CAT, BITSAT* |
| *Subjects* | *Open source software, operating system, python, mobile application development* |
| *Top Recruiters* | *HCL, TCS* |
| *Admission process* | *Direct admission and based on the entrance examination* |
| *Job profiles* | *Computer Network Architect, Computer Engineer, Computer system analyst* |

**Literature Survey**

*[1 ]*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.

[2] 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.

[3] 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.

[4] 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.

[5] 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.

[6] Deokate monali, Gholave Dhanashri, Jarad Dipali, Khomane Tejaswini (2018). College Recommendation System for Admission. International Research Journal of Engineering and Technology, 9(3), 187-175.

[7] Qazanfari, K., Youssef, A., Keane, K., & Nelson, J. (2017, October). A novel recommendation system to match college events and groups to students. In IOP Conference Series: Materials Science and Engineering (Vol. 261, No. 1, p. 012017). IOP Publishing

*[8] hana bydžovská. Course enrollment recommender system: proceeding of the 9th international conference on educational data mining, p. 312 – 317.*

*[9] jamil itmazi and miguel megias (2008), using recommendation systems in course management systems to recommend learning objects, p. 234 – 240.*

*[10] queen esther booker (2009). A student program recommendation system prototype: issues in information systems, p. 544 - 551 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.*