

TUFAN MANDAL

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PERSONAL STATEMENT

A Tech-enthusiastic, Ambitious, Engineering Professional with strong creative and analytical skills. Constant learner and ability to adapt to new technologies. I want to achieve success through what ever hurdles that come in my life. To work in an organization that will give me a platform to utilize my technical skills enriching my knowledge in the process to help in corporate growth with my initiative and Managerial skills to excel in the corporate environment.

EDUCATION

Bachelor of Technology, Computer Science & Engineering 2020 – 2024
University of Engineering and Management (UEM) Jaipur | Jaipur, Rajasthan

PROJECTS

IOT BASED SMART TRAFFIC MANAGEMENT SYSTEM

- Designed and implemented of an IoT-based traffic management system, leading to a 20% reduction in urban traffic congestion. Utilized **IoT devices, sensors, microcontroller**.
- Reduced the number of accidents, fuel cost & saves time. Achieved 15% improvement in traffic efficiency.
- Implemented based on sensors as well as we can **remotely control** when any emergency comes.

HEART DISEASE PREDICTION USING MACHINE LEARNING

- Developed an accurate heart disease prediction model using **machine learning** techniques, analyzing a dataset of over 500 patient records. Achieved an impressive 93% accuracy rate by implementing **decision trees, logistic regression**, and **random forests**.
- Implemented a **user-friendly** interface that enables doctors, health authorities, and administrators to access and monitor for 500 patient information with ease, facilitating efficient data management and monitoring.
- Gained expertise in machine learning, data analysis, and collaboration with domain experts. Gained valuable experience in **model building**, model validation and healthcare application development.

CONTENT BASED MOVIE RECOMMENDATION SYSTEM

- Developed a Content-Based Movie Recommendation System utilizing a dataset of 5000 movies, analyzing features such as genre, crew, and cast keywords to provide personalized suggestions.
- Integrated Natural Language Processing (NLP) techniques to extract insights from 10000 user reviews, enhancing the system's ability to understand individual preferences and improve recommendation accuracy.
- Accomplished a user-friendly interface that enables users to input preferences, receive real-time movie suggestions, and contribute feedback for continuous system enhancement, enhancing the overall user experience.

SKILLS

Programming Languages: Java, Python.

Skills: SQL, DBMS, OOPs, Data Structure and Algorithm.

Areas Of Interest: Big Data, Data Science, Machine Learning.

Web Technology: HTML, CSS, Bootstrap.

Familiar With: IoT, Google Colab, Oracle.

COURSES

NPTEL: Data Base Management System , Python for Data Science , Software Testing

Coursera: Python Basics , Foundations: Data, Data, Everywhere

ACHIEVEMENTS

Coding Profile: Solved 200+ problems on LeetCode, Coding Ninjas, Geeks for Geeks.

Scholarship: Earned cash rewards as Scholarship for Academic Excellence in my College.

DECLARATION

I am Tufan Mandal hereby declare that all the above mentioned in this resume are true.