Shubham Ram

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EDUCATION

YEAR	QUALIFICATION	EDUCATIONAL INSTITUTION	PERCENTAGE/ CGPA
2024 - Present	**MTech |Department of Management Sciences**	Indian Institute of Technology Kanpur	-
2018-2022	B.E | Civil Engineering	University OF Mumbai,Maharashtra	9.03 CGPA
2018	Higher Secondary Education |HSC	Matruchhaya Junior College of Science and Commerce, Mumbai	75.08%
2016	Secondary Education | SSC	Prema Laxman Vidyalaya, Mumbai	74.00%

SELF PROJECTS

Car Price Prediction

- Developed and implemented a machine learning model to predict second-hand car prices, improving accuracy over traditional methods.
- Utilized data processing techniques such as feature scaling, encoding and imputation to enhance model performance.
- Employed various algorithms including linear regression, decision trees and ensemble methods to identify the most effective approach for price prediction.
- EDA (Exploratory Data Analysis) to understand key features influencing car prices, such as make model, year, mileage and condition.
- Integrated data from multiple sources, including historical sales data and car specifications to build a comprehensive dataset for training and evaluation.
- Implemented performance matrices such as RMSE (Root Mean Squared Error) and MAE (Mean Absolute Error) to evaluate and validate model effectiveness.

Credit card's fraud transaction prediction

- Developed and deployed a machine learning model to detect credit card fraud, achieving high accuracy and minimizing false positives.
- Utilized a range of algorithms including logistic regression, decision trees, random forests and gradient boosting to identify fraudulent transactions.
- Predicted whether the transaction is legit or fraud Using 31 features and dataset has 284807 entries.
- Libraries used Pandas, NumPy, Matplotlib, Seaborn.
- Basic data analysis, under sampling of dataset to make a sub-dataset of it to make a balanced data set.
- Accuracy of testing data 0.93401.
- Precision of testing data is 0.96703.

COURSEWORK AND SKILLS

Relevant Courses	Probability & Statistics* | Operations Research for Management* | Statistical Modelling for Business Analytics* | Introduction of Computing (Python) |
Online Courses	Python Course for Beginners with Certification: Mastering the Essential on Scaler Platform
Technical Skills	**Python | ML Libraries: (**NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn**) |SQL** |MS Excel| MS PowerPoint | Tableau

ACHIEVEMENTS

- Second Rank in Bridge Design of Engineering Workshop and Paper Presentations Contest (EWPPC).
- Certificate of paper presentation on Estimation OF Time Required FOR The Radioactive Decay (Alpha Particle) Using First Order Differential Equation in the Engineering Workshop and Paper Presentations Contest (EWPPC).

POSITION OF RESPONSIBILITIES & EXTRACURRICULARS

- Contributes to IIT Kanpur's Department of Management Science as a vital member of the Media and Culture Team. My responsibilities encompass student activities, event management, and maintaining the department's website. (ongoing**)
- Board of member in Model United Nations (MUN) Conference at TCET works as Rapporteur.
- Participated in Extended Working Team (EWT).

*Present / Under Progress