RITIK SINGH

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EDUCATION

Degree/Certificate	Institute	CGPA / %	Year
M. Tech (Department of Management Sciences)	Indian Institute of Technology, Kanpur	-	2024 - Present
B. Tech (Textile Technology)	Uttar Pradesh Textile Technology Institute, Kanpur	8.32	2020-24
Higher Secondary Education (CBSE)	P.R.M.M Public School, Prayagraj	73.40 %	2020
Secondary Education (CBSE)	P.R.M.M Public School, Prayagraj	80.80 %	2018

PROJECTS

Sales Analysis Using Multivariate Regression | ML | Regression (GitHub Link) | (Self Project)

Objective	• To analyze the parameters which drive the sales predominantly (**Variable of Interest**).
Approach	• Performed **EDA**, feature engineering, calculated correlation matrix to analyze features driving the sales predominantly. • Used residual graph to find **heteroscedasticity** and used log transform to overcome it. • Used **VIF** (Variance Inflation Factor) to check **multicollinearity** and looked for **omitted variable bias**.
Result	• Finalized best multivariate linear regression model with R^2 score of **0.72** by using feature elimination based on **p-value**, and concluded that the **variation of the sales** can be best explained by **MRP** and **Type of the Outlet**.

Credit Card Fraud Detection | ML| Classification (GitHub Link) | (Self Project)

Objective	• To classify whether a given transaction is fraudulent or not using machine learning classification algorithms.
Approach	• Package used (**Pandas, Numpy, Matplotlib, Scikit-learn**). • Used **under-sampling** & **over-sampling (SMOTE technique)** method to deal with **imbalanced dataset**. • Used classification algorithms: **Logistic Regression**, **KNN** for prediction.
Result	• Various **classification matrix** were used to compare the models. Logistic Regression performed the best.

COURSEWORK & SKILLS   *in progress*

Relevant Courses	**Statistical Modelling** for **Business Analytics***	**Probability** & **Statistics***	Introduction to Computing (**Python**)*	Operations Research for Management*
Skills	**Python**	ML Libraries: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn	**SQL**	**Power BI**	**MS Excel**
Soft Skills	Critical Thinking	Problem Solving	Team Management	Communication Skills	Leadership	Adaptability
Certifications	• Python for Data Science & Machine Learning : Zero to Hero (Udemy) • My SQL for Beginners : A complete training for beginners (Udemy) • Microsoft PowerBI Masterclass Edition (Latest Version Apr'24) (Udemy) • Learn Microsoft Excel at once from basics (Udemy)

POSITION OF RESPONSIBILITY

➢ **Alumni and Corporate Relations Co-ordinator** | DOMS, IIT Kanpur
- Primary responsibility involves maintaining communication with alumni of the Department of Management Sciences (DoMS) and corporate leaders of Tech industry and invite them for webinars

➢ **State Co-ordinator** | UNMULAN NGO (Kanpur)
- Volunteering in the organization from past **4 years**
- Leading **15 members team** and **250+ volunteers** working for the NGO in Uttar Pradesh State
- Handled managing responsibilities and arranged funds for **10+ National Level** as well as **State Level Programs**

ACHIEVEMENTS & EXTRACURRICULAR

- Secured **AIR 16** in GATE 2024 (TF) during the **final year of B.Tech**
- Secured **AIR 32** in GATE 2023 (TF) during the **3rd year of B.Tech**
- **Presented Paper** on Technical Textiles in **4th International Textile Conference** ATMP-2021
- **Won 1st prize** in HUM BHI HAI 4.0 competition held in UPTTI Kanpur, **outperforming 120 participants**