ROHIT KUMAR

MTech | Department of Management Science | IIT Kanpur

rohitkum25@iitk.ac.in |
+91 7985727530

EDUCATION

Degree/Certificate	Institute	CGPA / %	Year
M. Tech (Department of Management Sciences)	Indian Institute of Technology, Kanpur	-	2025 - Present
B. Tech (Mechanical Engineering)	National Institute of Technology, Patna	7.89 CPI	2019-23
Higher Secondary Education (CBSE)	Allahabad Public School, Prayagraj	72.2 %	2019
Secondary Education (CBSE)	Allahabad Public School, Prayagraj	10 CPI	2017

WORK EXPERIENCE (11 MONTHS)

Jindal Stainless Limited, Jajpur Aug'23-Jul'24

- Managed production planning for the Steel Melt Shop (SMS), aligning raw material forecasts with Customer Supply Management (CSM) demand while accounting for raw material lead times.
- Spearheaded initiatives to reduce turnaround time (TAT) for all inbound logistics, improving efficiency and delivery timelines.
- Drove cost optimization strategies across various steel grades to enhance profitability.
- Developed SOPs and quality plans, applying statistical process control (SPC) and root cause analysis to enhance product quality.
- Collaborated with cross-functional teams for strategic planning, driving continuous improvement and operation excellence.

PROJECTS

House Price Prediction for Ames, USA |Machine Learning | Regression (GitHub Link) | **(Self Project)** *July 2025*

Objective	• To predict the house prices in the city of Ames, USA using Machine Learning Algorithms.
Approach	• The dataset comprises 80 independent features, and a dependent variable "SalePrice" with 2930 observations. • **Data Preprocessing**: Conducted outlier treatment, feature engineering and handled missing values. Applied one-hot encoding and feature scaling. • **Models Used**: Employed **Linear Regression** with **Elastic Net regularization** and **Random Forest Regressor**. • **Hyperparameter Tuning**: Utilize **GridSearchCV** to optimize model hyperparameters and enhance predictive performance. • **Toolset:** Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn
Result	• Achieved **adjusted R^2** of **86.6%** using **Linear Regression with Elastic Net regularization** and **adjusted R^2** of **86.3 %** using **Random Forest Regressor**.

Bank Personal Loan Modelling | Machine Learning | Classification (GitHub Link) | **(Self Project)** *August 2025*

Objective	• The goal is to predict the likelihood of a liability customer buying personal loans
Approach	• Steps includes **Exploratory Data Analysis**, Data Preprocessing, **Classification Models** (Using Logistic Regression, Decision Tree , Random Forest , Gradient Boost algorithms to predict the likelihood of customers accepting personal loans) and **Model Evaluation** (Printing the confusion matrix to evaluate the performance of each model). • **Package used :** Numpy, Panda, Matplotlib, Seaborn
Result	• The best-performing model is selected based on its confusion matrix and overall accuracy in predicting the acceptance of personal loans by liability customers and I got that Logistic Regression model has highest accuracy equals to **98.40%**

COURSEWORK & SKILLS

**in progress*

Relevant Courses	**Data Mining** and Knowledge Discovery* | **Probability** & **Statistics*** | Operations Research for Management* | Introduction to Computing*
Skills	Python*| ML Libraries: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn | MySQL*| MS Excel
Soft Skills	Decision Making | Adaptability | Team Management | Communication Skills | Leadership | Teamwork

ACHIEVEMENTS & EXTRACURRICULAR

- Completed a one-month vocational training at IOCL Guwahati, gaining practical experience in power plant operations.

LinkedIn Profile Link- Rohit Kumar
GitHub Profile Link- Rohit Kumar