ADITYA PRIYE

MTech | Department of Management Science | IIT Kanpur

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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 (Mechanical Engineering)	Jadavpur University	8.53 CPI	2015-19
Higher Secondary Education (CBSE)	D.A.V Public School, Patna	86.8 %	2014
Secondary Education (CBSE)	D.A.V Public School, Patna	10 CPI	2012

WORK EXPERIENCE (3 YEARS)

Jindal United Steel Limited, Jajpur Jul'19-Aug'22

- Conducted data analysis to optimize production processes, reducing defects and improving efficiency.
- Led projects to minimize seam-line defects, reduce roll change time, and optimize slab length, leveraging data-driven insights.
- Managed furnace operations, ensuring safety, efficiency, and reducing fuel consumption through process optimization.
- 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 2024*

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 2024*

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	**Statistical Modelling** for Business Analytics* | **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
Certifications	- Machine Learning from Basic to Advanced – Udemy - Python NumPy Data Analysis for Data Scientist – Udemy - The Pandas Bootcamp – Udemy - Microsoft Excel – Udemy

ACHIEVEMENTS & EXTRACURRICULAR

- Secured AIR 482 in GATE 2024 Examination in Mechanical Engineering conducted by IISC Bangalore.
- Organised a technical event in TRAJECTORY (Mechanical Engineering Tech fest) at Jadavpur University .
- Completed a one-month vocational training at NTPC, gaining practical experience in power plant operations.

LinkedIn Profile Link- Aditya priye
GitHub Profile Link- adityapriye