RISHABH PANDEY

M.Tech | Management Sciences (IME) IITK

Linkedin Github profile

rishabhp24@iitk.ac.in | (+91) 7985647101

EDUCATION

YEAR	QUALIFICATION	EDUCATIONAL INSTITUTION	% / CGPA
2024 - Present	M.Tech | Department of Management Sciences	Indian Institute of Technology, Kanpur	7.54* *(Up to First Sem)
2017-2021	B.Tech | Textile Chemistry	Nitra Technical Campus Ghaziabad	8.26
2015	Higher Secondary Education |UP Board	Rani Laxmi Bai Smarak Inter College	78.8
2013	Secondary Education | CBSE Board	Diamond Public Inter College	8.4

SELF PROJECTS

Crime Rate Prediction	**Git Hub**
Objective	Built a **regression model** to analyze the influence of socio-economic factors on crime rates.
Approach	• Conducted **Data Preprocessing**, including handling **missing values and outliers**. • Performed **Feature Selection** to identify impactful socio-economic factors. • Utilized Python libraries such as **NumPy, Statsmodels**, and **Scikit-learn** for Statistical Modeling and analysis.
Result	Derived actionable insights into socio-economic variables affecting crime rates.
Breast Cancer Prediction	**Git Hub**
Objective	To develop a machine learning model for **predicting breast cancer diagnosis (benign or malignant)** based on clinical features.
Approach	• Cleaned the dataset by removing irrelevant columns, handling missing values, and converting **categorical target labels to binary**, then split the data into **training and test sets**. • Trained the model using **XGBoost classifier** with scaled features and evaluated its performance through **classification metrics**, **confusion matrix**, **ROC curve**, and feature importance.
Result	The **XGBoost model** achieved high accuracy in distinguishing between benign and malignant breast tumors, demonstrating its effectiveness for this classification task.
Iris Flower Classification	**Git Hub**
Objective	Developed a robust classification model to predict Iris species, demonstrating expertise in machine learning workflows
Approach	• Conducted **EDA** to identify patterns and relationships among features, then preprocessed the dataset with feature scaling and train-test split. • Built a **Logistic Regression** model with **hyperparameter tuning** using **GridSearchCV** and evaluated performance through **precision, recall, F1-score, and ROC-AUC curve. Tools: Python, Scikit-learn, Matplotlib, Seaborn.**
Result	Achieved a **classification accuracy of 92%**, demonstrating the model's ability to effectively distinguish between Iris species.

WORK EXPERIENCE (25 Months) (Jul 2021 – Aug 2023)

Job Profile	Worked in Kusumgar Corporates Pvt Ltd as Product Development Engineer managing development of fabric under Defence & Aeronautical Segment.
Projects	Optimized production costs and processes using ERP systems and Excel, enhancing decision-making and reporting. Analyzed data, including color reflectance for defense fabrics, to improve IRR values and overall project outcomes.

COURSEWORK AND SKILLS

Relevant Courses*	Probability & Statistics | Operations Research for Management | Introduction to Computing (Python) | **Statistical Modelling for Business Analysis** | **Applied Machine Learning**
Online Courses	**Python Programming** - Beginner to Master- Udemy (ongoing)
Technical Skills	**SQL*** | Python* | Data Analysis | **Machine Learning*** | **Power BI**

ACHIEVEMENTS & EXTRA CURRICULAR

- Secured AIR 4 in Gate 2024 in Textile Eng. & Fibre Science paper conducted by IISc Banglore.
- Junior Placement Coordinator at Department of Management Sciences in IIT Kanpur.

*Present / Under Progress