Ishaan Bhanariya

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1st Year Postgraduate, Department of Management Sciences (DoMS) — IIT Kanpur

EDUCATION

Degree/Certificate	Institute	CGPA / %	Year
M.Tech. (Management Sciences)	Indian Institute of Technology, Kanpur	-	2026-Present
P.G. Diploma (Hydrology)	Indian Institute of Technology, Roorkee	8.18	2025-2026
B.Tech. (Agricultural Engineering)	College of Agricultural Engineering, Jabalpur	7.86	2021-2025
Senior Secondary (CBSE)	CBSE Board	84.8%	2021
Secondary (CBSE)	CBSE Board	88.2%	2019

SELF PROJECTS

Boston House Price Prediction | Machine Learning | Regression (GitHub Link) | (Self Project)	*July 2026*
Objective	• House Price Prediction using regression techniques on the classic Boston Housing dataset (506 datapoints, 15 features).
Approach	• Conducted Exploratory Data Analysis and employed NumPy, Pandas, Matplotlib, Seaborn, and Scikit-Learn to implement a Linear Regression model for predicting housing prices.
Result	• Achieved a maximum R2 Score of 0.78 on test data using the Linear Regression model.

Ensemble Learning for MBA Admission Pred.* | Machine Learning | Classification (GitHub Link) | (Self Project)	*July 2026*
Objective	• To predict MBA admission status using PCA-reduced features and compare Decision Tree, KNN and SVM models (with ensemble optimizations) based on accuracy and F1-score, while addressing overfitting.
Approach	• Data Preprocessing – Handled missing values and scaled features. • Dimensionality Reduction – Applied PCA to preserve variance with fewer features. • Modeling & Optimization – Trained Decision Tree, KNN, SVM; enhanced with Random Forest, Bagging, and Boosting. • Evaluation – Compared models using Accuracy and F1 Score as [Decision Tree, KNN, SVM].
Result	• Achieved Accuracy scores of [0.87, 0.88, 0.86] and F1 Scores of [0.82, 0.83, 0.82] across Decision Tree, KNN, and SVM respectively.

Mall Customers Clustering Analysis | Clustering | K-Means (GitHub Link) | (Self Project)	*July 2026*
Objective	• To make clusters of customers of a mall with 5 attributes using an unsupervised approach.
Approach	• Examined the dataset for null values & duplicates. • Performed descriptive statistics, visualization using pair-plot, and data analysis. • Checked for class imbalance. • Conducted clustering analysis using K-Means Clustering, Seaborn, and Matplotlib. • Used the Elbow Method to find the optimum cluster number.
Result	• 4 customer clusters were visualized, named: Usual, Priority, Senior Citizen Target, and Young Target customers.

COURSEWORK & SKILLS

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

ACHIEVEMENTS AND EXTRA CURRICULAR

- Won various inter-university singing competitions
- Visharad, in Tabla from Raja Mansingh Tomar Music and Arts University, Gwalior — 2021
- College Representative, National Service Scheme (NSS) — 2023-2025