

EDUCATION			
Degree/Certificate	Institute	CGPA / %	Year
M.Tech (Department of Management Sciences)	Indian Institute of Technology, Kanpur	-	2026 – Present
B.Tech (Computer Science and Engineering)	Technocrats Institute of Technology (Excellence)	8.22 CPI	2020–2024
Higher Secondary Education	Scope Public Hr. Sec. School	67 %	2018
Secondary Education	Carmel Convent Sr. Sec. School, Bhopal	7.6 CGPA	2016

PROJECTS

Credit Risk Modelling

Classification (GitHub Link) | (Self Project)

Objective	To classify which person is eligible for lending loan, revising the current credit lending strategy of the bank.
Approach	- Examined and analyzed a dataset of 51,336 customers with 79 features, detailing the CIBIL data of each individual customer. - Performed NULL value treatment and data visualization. - For feature selection, used chi-square tests, Variance Inflation Factor (VIF), and ANOVA. - Applied feature engineering techniques: one-hot encoding and label encoding. - Selected and evaluated various models, including Decision Tree, Random Forest, Logistic Regression, K-Nearest Neighbors (KNN), Naive Bayes, and XGBoost. - Fine-tuned the XGBoost model with hyperparameter tuning to improve its performance.
Result	Quantified outcome, e.g. metric = value.

PriceMyRide – Used Car Price Prediction

Machine Learning / Regression (GitHub Link) | (Self Project)

Objective	Predicted used-car prices from 6,717 listings; parsed numeric strings, derived brand, removed nulls/duplicates, log-transformed skewed features.
Approach	- Process: FunctionTransformer → ColumnTransformer (One-Hot + Scaling) → model; 5-fold CV and held-out test set. - Modeling/Analysis: Compared Linear, Ridge, Lasso vs. RandomForest (n_estimators=400); selected RandomForest. - Tools: Python, scikit-learn, Pandas, NumPy, Plotly. - End-to-end car price prediction pipeline with log-aware preprocessing and RF ($R^2 \approx 0.93$).
Result	Test $R^2 = 0.929$; MAE $\approx 73,000$; linear baselines $R^2 \approx 0.87\text{--}0.89$ (MAE $\approx 89\text{k--}93\text{k}$).

COURSEWORK & SKILLS

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* Excel C/C++ Machine Learning Data Structures, Algorithms
Soft Skills	Flexibility Adaptability Team Management Communication Skills Leadership Decision Making

ACHIEVEMENTS & EXTRACURRICULAR

- Cleared JEE Mains.
- Cleared GATE (2025) with 96.44 percentile in Computer Science.