

EDUCATION			
Degree/Certificate	Institute	CGPA / %	Year
M. Tech (Department of Management Sciences)	Indian Institute of Technology, Kanpur	-	2025- Present
B. Tech (Agricultural Engineering)	CTAE, Agriculture University, Jodhpur	8.73 CGPA	2021-25
Higher Secondary Education	Prathibha Public Senior Secondary school, Jodhpur	79.80 %	2020
Secondary Education	Red Rose Public Senior Secondary School, Jodhpur	94.00 %	2018
PROJECTS			
PriceMyRide — Used Car Price Prediction Machine Learning Regression (GitHub Link) (Self Project)			August 2025
Objective	• Predicted used-car prices from 6,717 listings; parsed numeric strings, derived brand, removed nulls/duplicates, log-transformed skewed features.		
Approach	• Context: Predicted used-car prices from 6,717 listings; parsed numeric strings, derived brand, removed nulls/duplicates, log-transformed skewed features. • 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 • Repo tagline: End-to-end car price prediction with log-aware preprocessing and RF (R² ≈ 0.93).		
Result	• Results: Test R² = 0.929; MAE ≈ ₹73,000; linear baselines R² ≈ 0.87–0.89 (MAE ≈ ₹89k–₹93k).		
Digital Marketing Conversion Modeling Machine Learning Classification + Uplift (GitHub Link) (Self Project)			August 2025
Objective	• To predict the selling price of used cars using supervised regression on tabular automotive listings to support data-driven pricing and faster sales decisions.		
Approach	• Context: Built an end-to-end conversion prediction and uplift modeling pipeline on 8,000 campaign records; features span demographics, channel/type, engagement, and spend. • Process: ColumnTransformer (One-Hot + Scaling) inside an imbalanced-learning Pipeline with SMOTE; 5-fold Stratified CV; held-out test evaluation; interactive PR/ROC and driver analysis. • Modeling/Analysis: XGBoost classifier (n_estimators=300, max_depth=4, lr=0.1, subsample/colsample=0.8); threshold tuning for F1 and recall; Two-Model uplift (separate treatment/control models) with ranked targeting. • Tools: Python, scikit-learn, imbalanced-learn, XGBoost, Pandas, NumPy, Plotly/Seaborn. • Repo tagline: Conversion prediction with XGBoost and uplift ranking for campaign targeting; PR-AUC ≈ 0.94, actionable thresholds, and top-20% uplift focus.		
Result	• PR-AUC 0.94, ROC-AUC 0.81; at threshold 0.552, accuracy 0.92 with high converter recall; uplift (simulated): top 20% +0.16 vs bottom 20% −0.15.		
PM2.5 Forecasting (India)Growth Time Series Regression EDA (GitHub Link) (Self Project)			July 2024
Objective	• To forecast hourly PM2.5 using a RandomForest that outperforms a 24h persistence baseline (R² 0.97, MAE 2.22 vs R² 0.86, MAE 4.79).		
Approach	• Context: Forecasted hourly PM2.5 from 36,192 timestamps; created calendar features and 1h/24h lags; time-ordered 80/20 split to avoid leakage. • Process: Built a RandomForest regressor and established a persistence baseline (t−24h); evaluated on held-out test window using R², MAE, RMSE with side-by-side comparisonPerformed. • Tools: Python, scikit-learn, Pandas, NumPy, Plotly • Repo tagline: PM2.5 forecasting that beats a 24h persistence baseline by large margins (R² 0.97 vs 0.86) with hourly features and lags		
Result	• Model R²=0.967, MAE=2.22, RMSE=3.58 vs Naive-24h R²=0.857, MAE=4.79, RMSE=7.46 on test, clearly outperforming baseline.		
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* Excel		
Soft Skills	Flexibility Adaptability Team Management Communication Skills Leadership Decision Making		
ACHIEVEMENTS & EXTRACURRICULAR			
• Secured AIR-10 in GATE AG in 2025 organised by IIT, Roorkee • Secured AIR-171 in GATE AG in 2024 organised by IISC, Bengaluru			