

EDUCATION			
Degree/Certificate	Institute	CGPA / %	Year
M. Tech (Department of Management Sciences)	Indian Institute of Technology, Kanpur	-	2025 - Present
M. Tech (Modeling and Simulation)	Defence Institute of Advanced Technology, Pune	7.87 CGPA	
B. Tech (Textile Engineering)	Uttar Pradesh Textile Technology Institute, Kanpur	8. 17 CGPA	2017-2021
Higher Secondary Education (UP Board)	I C Bhatawali Bazar Unwal, Gorakhpur	76.80 %	2016
Secondary Education (Up Board)	K I C Bhatpar Khajani, Pagar, Gorakhpur	84.33 %	2014
PROJECTS			
Laptop Price Prediction Machine Learning Regression (Self Project)			
Objective	To develop a machine learning model to predict Laptop prices using Machine Learning Algorithms.		
Approach	Performed EDA, Feature Engineering, Feature Selection, Models Training and Best Model Hyperparameter Tuning. Used Training and prediction Pipeline for Automation. Model used: Linear Regression (Ridge, Lasso, ElasticNet), Decision Tree Regressor, Support Vector Regressor (SVR) , Explored ensemble methods: Random Forest Regressor, AdaBoost Regressor, Gradient Boosting Regressor and XGboost (XGBRegressor) and Performed Hyperparameter Tuning using Grid SearchCV . Toolset: Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn.		
Result	Best Model: Random Forest Regressor with r2_score = 0.88734 , After Hyperparameter Tuning, r2_score = 0.89132		
Credit Cards Fraud Transaction Prediction Machine Learning Classification (Self Project)			
Objective	To develop a machine learning model that accurately detects fraudulent credit card transactions in a highly imbalanced dataset using Machine Learning Algorithms.		
Approach	Developed and deployed a machine learning model to detect credit card fraud, achieving high accuracy and minimizing false positives. Utilized a range of algorithms including logistic regression, decision trees, random forests and gradient boosting to identify fraudulent transactions. Predicted whether the transaction is legit or fraud Using 31 features and dataset has 284807 entries. Basic data analysis, under sampling of dataset to make a sub-dataset of it to make a balanced data set. Toolset: Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn.		
Result	Accuracy of testing data 0.93401 , Precision of testing data is 0.96703 .		
Customer Segmentation Using Clustering Machine Learning Clustering (Self Project)			
Objective	To perform Unsupervised Clustering on customer data to identify distinct customer groups, enabling the business to tailor products and marketing strategies to diverse customer needs and behaviors.		
Approach	Conducted data cleaning, preprocessing, and dimensionality reduction using techniques like Principal Component Analysis (PCA) . Applied clustering algorithms such as K-means and Hierarchical Clustering to segment customers. Evaluated model performance using metrics like silhouette scores and visualized cluster characteristics.		
Result	Identified key customer segments, Proposed targeted marketing strategies and product recommendations, optimizing customer engagement and retention .		
COURSEWORK & SKILLS			
Relevant Courses	Probability & Statistics* Operations Research for Management* Introduction to Computing (Python)* Data Mining and Knowledge Discovery*		
Skills	Python ML Libraries: NumPy, Pandas, Matplotlib , Seaborn, Scikit-learn MySQL* Transformer NLP*		
Soft Skills	Analytical Ability Decision Making Problem Solving Communication Skills Leadership Team Management		
POSITION OF RESPONSIBILITY			
Editor in Chief Media Cell UPTTI Kanpur.			
Mentor Student Mentorship Program 2K18 UPTTI Kanpur			
Volunteer Smart Textile Hackathon 2K19 UPTTI Kanpur			
Volunteer International Conference on Advances in Textile Materials & Processes ATMP 2K19 UPTTI Kanpur			
ACHIEVEMENTS & EXTRACURRICULAR			
- Achieved AIR 15 in GATE 2025 in Textile Engineering and Fibre Sciences conducted by IIT Roorkee. - Won gold medal in 4 X 100-meter relay race in SPHURTI 2020 (UPTTI, Kanpur). - Organized CHITRAKARI'19 under TEQIP-III (UPTTI, Kanpur). - Member of UNMULAN NGO.			