

EDUCATION				
Degree/Certificate		Institute	CGPA / %	Year
M. Tech (Department of Management Sciences)		Indian Institute of Technology, Kanpur	-	2026 - Present
B. Tech (Mining Engineering)		National Institute of Technology, Raipur	8.24 CGPA	2022-2026
Intermediate (CBSE)		Nezamia Public School	85.4	2020
Matriculation (CBSE)		Sun Shine Residential Public School	85.8	2018
PROJECTS				
Walmart Sales Prediction, USA Machine Learning Regression (GitHub) (Self Project) June 2026				
Objective	Predicted Weekly Sales Using 8 features and a dataset with 6435 entries using Machine Learning Algorithms.			
Approach	Data Preprocessing & Feature Engineering: Handled missing data, outliers (IQR), standardized variables, performed p-value-based feature selection, and added derived date features (day-of-week, month, year). Multicollinearity & Modeling: Applied correlation matrix, VIF, RFE, and PCA to reduce collinearity; built Linear & Polynomial Regression models, addressing overfitting with Ridge, Lasso, and Elastic Net. Toolset: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn.			
Result	Best performance achieved with Multiple Linear Regression: R ² Score 0.9277, RMSE 157283.79.			
Binary Image Classification Machine Learning Classification (GitHub) (Self Project) May 2026				
Objective	To build a deep learning model for classifying images of cats and dogs with high accuracy.			
Approach	- Designed and trained a Convolutional Neural Network (CNN) using TensorFlow and Keras - Extracted Histogram of Oriented Gradients (HOG) features and implemented KNN, SVM, and Logistic Regression for classical ML comparison. - Deployed final CNN model as a web application.			
Result	Achieved 95% classification accuracy; deployed an interactive tool for instant image prediction.			
Air Ticket Fare Estimator, India Machine Learning Regression (GitHub) (Self Project) July 2026				
Objective	To predict the flight ticket prices for Indian airlines using Machine Learning Algorithms.			
Approach	The dataset comprises 10 independent features, and a dependent variable "Price" with 10682 observations. Data Preprocessing: Conducted outlier treatment, feature engineering and handled missing values. Applied one-hot encoding and feature scaling. Models Used: Employed Random Forest Regressor . Hyperparameter Tuning: Utilize GridSearchCV to optimize model hyperparameters and enhance predictive performance. Toolset: Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn			
Result	Achieved adjusted R² of 85.2% after Hyperparameter tuning as compared to R² of 84.5 % using Random Forest Regressor .			
COURSEWORK & SKILLS *in progress				
Relevant Courses	Probability & Statistics* Operations Research for Management* Introduction to Computing* Data Mining and Knowledge Discovery* Applied Machine Learning*			
Skills	Python ML Libraries: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, Calex MySQL* Prompt Engineering			
Soft Skills	Analytical Ability Decision Making Problem Solving Communication Skills Leadership Team Management			
certifications	- Become a Data Analyst (Link) - Predictive Analytics Essential Training: Data Mining (Link) - SQL: Data Reporting and Analysis (Link) - Tableau Essential Training (Link)			
ACHIEVEMENTS & EXTRACURRICULAR				
- Secured AIR 79 (Score – 659) in Gate 2026 (MN Paper). - Winner of Cricket Tournament organized by MES, NIT Raipur (2023)				
TRAINING				
Student Trainee (4 week) (May’ 25 – June’25) - MOIL Limited, Balaghat Mine, Madhya Pradesh Student Trainee (4 week) (June’ 24 – July’ 24) - SECL Mine, Delwadih, Korba, Chhattisgarh				