

EDUCATION			
Degree/Certificate	Institute	CGPA / %	Year
M. Tech (Management Sciences)	Indian Institute of Technology, Kanpur	-	2026 - Present
Integrated B. Tech + M.Tech (Civil Engineering)	Gautam Buddha University, Greater Noida	7.51	2021
Higher Secondary Education	JNVM Inter College, Kanpur	78.4	2015
Secondary Education	JNVM Inter College, Kanpur	80.7	2013
WORK EXPERIENCE (4 Years 3 Months)			
❖ Faculty at School of Engineering, Department of Civil Engineering (August 2024 – June 2026) Delivered lectures of Civil Engineering courses, fostering analytical and problem-solving skills among students. Coordinated departmental academic activities and maintained course documentation. ❖ Operations Analyst at Arkiyushastitva Organic LLP (Orgo All Natural) (August 2023 – July 2024) Prepared MIS reports and operational dashboards for business monitoring. Maintained SOPs and process documentation to improve operational consistency. Performed operational data analysis, reporting, and documentation. ❖ Site Engineer at IndusInfra Structures (September 2021- January 2023)			
INTERNSHIPS (6 Months)			
❖ Centre For Science and Environment (July 2020 – September 2020) Research Intern to prepare reports of Industries ❖ Rail Vikas Nigam Limited (May 2019 – July 2019) Intern for Railway Infrastructure Construction Project			
SELF PROJECTS			
Customer Churn Prediction Machine Learning Classification			
Objective	To develop a binary classification model to accurately predict which customer is likely to leave.		
Approach	In this, 20 independent variables are used over 7043 observations. Data Preprocessing: Cleaned data, Performed One-Hot Encoding and feature scaling. Analysis: Conducted EDA, including Univariate and Bivariate Analysis for getting insights Models Used: Employed Decision Tree Classifier, and Random Forest Classifier and optimized performance by handling imbalanced data using SMOTE, also performed PCA.		
Result	Random Forest Classifier with Over SMOTE gave balanced results: Recall = 0.96, Precision = 0.94, F1 Score = 0.95		
CO ₂ Emission Prediction Machine Learning Regression			
Objective	The objective of the project is to analyze the influence of various variables on CO2 emissions in vehicles and identify the most significant features affecting CO ₂ emission.		
Approach	Conduct Exploratory Data Analysis (EDA), Correlation Analysis on the provided dataset to Investigate relationships between different vehicle features and CO ₂ emissions. Utilize statistical techniques, and visualizations (Prediction Error visualization, for a Linear Regression model which helps to understand how well Linear Regression model is performing) to assess the influence of variables.		
Result	Performance achieved with Linear Regression: R ² Score 0.874, RMSE 20.516 The visualization helps to identify patterns in the prediction errors made by Linear Regression model.		
Credit Risk Modelling Machine Learning Classification			
Objective	To classify which person is eligible for lending loan. Revising the current credit lending strategy of bank.		
Approach	Examined and analyzed a dataset of 51336 customers with 79 features, detailing the CIBIL data of each individual customer. Performed NULL value treatment and Data Visualization. For Feature Selection, sed 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), Naïve Bayes, and XG Boost. Fine-tuned the XG Boost model with hyperparameter tuning to improve its performance.		
Result	Got the best accuracy of 0.7843 using XG boost model		
Customer Segmentation Machine Learning Clustering			
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 Data Mining & Knowledge Discovery Operations Research for Management Introduction to Computing		
Online Certifications	Supervised Machine Learning by Andrew NG Statistical Inference from Coursera		
Skills	Python ML Libraries: NumPy, Pandas, Matplotlib Excel Power Point		
Soft Skills	Team Management Decision Making Problem Solving Adaptability Leadership Presentation & Communication Skills		
POSITIONS OF RESPONSIBILITIES			
❖ Cultural Secretary Sant Ravidas Hostel Gautam Buddha University ❖ Class Representative B.Tech – 3rd Year Civil Engineering Department Gautam Buddha University ❖ Event Organizer Cultural Fest – Abhivyanjana 2019 Gautam Buddha University			
ACHIEVEMENTS & EXTRACURRICULAR			
❖ Secured AIR 673 (99.16 Percentile) in Civil Engineering & AIR 67 (98.69 Percentile) in Environmental Sciences on GATE Examination ❖ Written a research paper titled as ‘Treatment of Industrial Waste & Electricity Generation’ published in a Journal			