

EDUCATION			
Degree/Certificate	Institute	CGPA / %	Year
M. Tech (Department of Management Sciences)	Indian Institute of Technology, Kanpur	-	2024 - Present
B. Tech (Civil Engineering)	MNIT, Jaipur	7.25 CGPA	2016-2020
Higher Secondary Education (UP Board)	Saraswati V M Inter College Hamirpur	91.4 %	2015
Secondary Education (Up Board)	Saraswati V M Inter College Hamirpur	87 %	2013
PROJECTS			
Walmart Sales Prediction, USA Machine Learning Regression (GitHub Link) (Self Project)			July 2024
Objective	Predicted Weekly Sales Using 8 features and a dataset with 6435 entries using Machine Learning Algorithms.		
Approach	<ul style="list-style-type: none"> Data Preprocessing: Managed null values, outliers (Interquartile Range - IQR), scaled variables (StandardScaler), identified collinearity (correlation matrix, heatmap), removed multicollinearity (Variance Inflation Factor - VIF) and selected features (p-value significance). Models Used: Linear and Polynomial Regression, addressed 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.		
Customer Conversion via Digital Marketing Machine Learning Classification (GitHub Link) (Self Project)			August 2024
Objective	To Develop a Binary Classification Model to Predict Customer Conversion Through Digital Marketing Interactions		
Approach	<ul style="list-style-type: none"> Preprocessing: Treated null values, detected outliers, checked multicollinearity, engineered features (conversion_rate, cpa, ctr, avg_transaction_value), and addressed imbalance with SMOTE. Models Used: Logistic Regression, Support Vector Classifier - SVC, Decision Tree, RandomForest, XGBoost with hyperparameter tuning (GridSearchCV). Tools: Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, XGBoost, SMOTE (Synthetic Minority Oversampling Technique). 		
Result	Best performance achieved with XGBoost: Accuracy 0.90875, F1 Score 0.8992.		
Customer Segmentation Machine Learning Clustering (GitHub Link) (Self Project)			August 2024
Objective	Predicted customer segments using demographic data, marketing-specific metrics, customer engagement indicators, and spending behavior data.		
Approach	<ul style="list-style-type: none"> Performed data visualization, including histograms, count plots, and scatter plots, to understand the relationships between features. Applied K-Means clustering for segmentation: Age & Spending Score, Annual Income & Spending Score, Age, Annual Income & Spending Score. Plotted the inertia using the Elbow Method to select the optimal number of clusters for each segmentation. Visualized the clusters and their boundaries for better interpretation. 		
Result	Successfully segmented customers into distinct groups using K-Means clustering, allowing for targeted marketing strategies based on demographic and behavioral data.		
COURSEWORK & SKILLS *in progress			
Relevant Courses	Statistical Modelling for Business Analytics* Probability & Statistics* Operations Research for Management* Introduction to Computing*		
Skills	Python ML Libraries: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn MySQL* Excel		
Soft Skills	Analytical Ability Decision Making Problem Solving Communication Skills Leadership Team Management		
POSITION OF RESPONSIBILITY			
Class Representative M. Tech. DoMS IIT Kanpur			
<ul style="list-style-type: none"> Represents the batch in official/unofficial matters. Coordinate with DPGC and department office for all academic work if needed. 			
Class Representative B. Tech. Civil Engineering NIT Jaipur			
<ul style="list-style-type: none"> Represented the batch in official/unofficial matters. Coordinate with department office for all academic work if needed. 			
Chief Mentor Student Mentorship Program NIT Jaipur			
<ul style="list-style-type: none"> Led a team of 29, including 3 mentors, 8 sub-mentors per mentor, one other chief mentor, and myself. 			
Mentor Student Mentorship Program NIT Jaipur			
<ul style="list-style-type: none"> Managed a team of 8 sub-mentors and mentored 100 first-year students. 			
Sub-Mentor Student Mentorship Program NIT Jaipur			
<ul style="list-style-type: none"> Mentored 12 first-year students 			
ACHIEVEMENTS & EXTRACURRICULAR			
<ul style="list-style-type: none"> Organized Scholars Cup 2K19, a major event with 700 participants (70 Teams of 10) First Runner up of MNIT's FINEST Comedian at MNIT Jaipur Semi-finalist of Armageddon an international Event (Robowars) in Cognizance at IIT Roorkee 			