

EDUCATION			
Degree/Certificate	Institute	CGPA / %	Year
M. Tech (Department of Management Sciences)	Indian Institute of Technology, Kanpur	-	2023 - Present
B. Tech (Mechanical Engineering)	Aligarh Muslim University	8.825 CPI	2019-23
Higher Secondary Education (CBSE)	Delhi Public School, Aligarh	96.8 %	2019
Secondary Education (CBSE)	Delhi Public School, Aligarh	10 CPI	2017
PROJECTS			
House Price Prediction for Ames, USA Machine Learning Regression (GitHub Link) (Self Project)			July 2023
<i>Objective</i>	<ul style="list-style-type: none"> To predict the house prices in the city of Ames, USA using Machine Learning Algorithms. 		
<i>Approach</i>	<ul style="list-style-type: none"> The dataset comprises 80 independent features, and a dependent variable "SalePrice" with 2930 observations. Data Preprocessing: Conducted outlier treatment, feature engineering and handled missing values. Applied one-hot encoding and feature scaling. Models Used: Employed Linear Regression with Elastic Net regularization and Random Forest Regressor. Hyperparameter Tuning: Utilize GridSearchCV to optimize model hyperparameters and enhance predictive performance. Toolset: Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn 		
<i>Result</i>	<ul style="list-style-type: none"> Achieved adjusted R² of 86.6% using Linear Regression with Elastic Net regularization and adjusted R² of 86.3 % using Random Forest Regressor. 		
Diabetes Prediction through Health Variable Analysis Machine Learning Classification (GitHub Link) (Self Project)			August 2023
<i>Objective</i>	<ul style="list-style-type: none"> To develop a binary classification model to accurately predict diabetes by analysing health-related variables. 		
<i>Approach</i>	<ul style="list-style-type: none"> Variables are age, gender, BMI, hypertension, heart disease, smoking history, HbA1c level, and blood glucose level. Data Preprocessing: Conducted EDA, applied missing value and outliers' treatment, performed One-Hot Encoding, and feature scaling. Dealt with imbalanced data using class weight balancing, Oversampling, and SMOTE. Models Used: Employed Logistic Regression, Decision Tree Classifier, and Random Forest Classifier and optimized performance through hyperparameter tuning using GridSearchCV. 		
<i>Result</i>	<ul style="list-style-type: none"> Random Forest Classifier with Over Sampling gave balanced results: Recall = 0.79, Precision = 0.72, F1 Score = 0.75 		
Analysis of Fandango's Movie Rating System (GitHub Link) (Self Project)			July 2023
<i>Objective</i>	<ul style="list-style-type: none"> To analyze and determine if Fandango's movie ratings in 2015 were biased by comparing them to ratings from other sites and identifying discrepancies. 		
<i>Approach</i>	<ul style="list-style-type: none"> Conducted data exploration on Fandango movie ratings and ratings from other sites (Rotten Tomatoes, Metacritic, IMDb). Quantified and plotted discrepancies between Fandango's displayed stars and true user ratings. Visualized and compared Fandango ratings with ratings from other sites by examining the distribution of movie ratings. Examined distribution of ratings for Top 10 worst movies across all sites. 		
<i>Result</i>	<ul style="list-style-type: none"> Identified Fandango's tendency to inflate ratings for poor films, showing 3-4 stars for clearly bad movies. Highlighted example: "Taken 3" displayed 4.5 stars on Fandango but averaged 1.86 stars across other sites. 		
COURSEWORK & SKILLS *in progress			
<i>Relevant Courses</i>	Statistical Modelling for Business Analytics* Probability & Statistics * Operations Research for Management* Introduction to Computing*		
<i>Skills</i>	Python ML Libraries: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn MySQL* Excel		
<i>Soft Skills</i>	Decision Making Adaptability Team Management Communication Skills Leadership Teamwork		
<i>Certifications</i>	<ul style="list-style-type: none"> Python for Machine Learning & Data Science Masterclass (Udemy) Microsoft Excel - Excel Only for Beginners 2023 (Udemy) 2023 Complete SQL Bootcamp from Zero to Hero in SQL (Udemy) 		
POSITION OF RESPONSIBILITY			
Alumni and Corporate Relations M. Tech. DoMS IIT Kanpur			
<ul style="list-style-type: none"> Primary responsibility involves maintaining communication with alumni of the Department of Management Sciences (DoMS) and corporate leaders of Tech industry and invite them for webinars. 			
ACHIEVEMENTS & EXTRACURRICULAR			
<ul style="list-style-type: none"> Awarded CST UP Science Talent Scholarship worth Rs 2000 per Month for 2 years from Council of Science & Technology, Government of Uttar Pradesh. (2016-17) 			