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	Degree/Certificate	Institute/Board	CGPA / %	Year	
M. Tech (Department of Management Sciences)		Indian Institute of Technology, Kanpur	-	2025 - Present	
B. Tech (Industrial and Production Engineering)		NIT Jalandhar	7.73 CGPA	2019-2023	
Higher Secondary Education		Board of Secondary Education, Rajasthan	85.60 %	2018	
Secondary Education (CBSE)		Central Board of Secondary Education	9.2 CGPA	2016	
PROJECTS					
CO2 Emission	on Prediction Machine Learning Reg	gression (<u>GitHub Link</u>) (Self Projec	t)	June 202	
Objective		of the project is to analyze the influence of various variables on CO2 emissions in vehicles and nost significant features affecting CO2 emission.			
Approach	Conduct Exploratory Data Analysis (EDA), Correlation Analysis on the provided dataset to Investigate relationships between different vehicle features and CO2 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. Toolset: NumPy, Pandas, Matplotlib, Seaborn				
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.				
Customer (Churn Prediction Machine Learning		_	July 202	
Objective	To develop a binary classification mode	l to accurately predict which customer	is likely to lea		
	preprocessing, the data was cleaned, an analysis phase involved an Exploratory gain insights. The models used were a Experiormance, the project handled imbated PCA Toolset: Scikit-learn, NumPy, Pandas, M	Data Analysis (EDA), including Univaria Decision Tree Classifier and a Random Falanced data using SMOTE and performed	ate and Bivari Forest Classific	ate Analysis, to er. To optimize	
Result	Random Forest Classifier with SMOTE ga		sion = 0.94, F1	L Score = 0.95.	
Customer S	egmentation Machine Learning Clu	stering (GitHub Link) (Self Project)		August 202	
Objective	Segmented the customers into different spending behavior data.			metrics and	
Approach	Data Exploration & Visualization: Verified data integrity (no missing values), created histograms, count/scatter/violin plots to analyze distributions and relationships (Age, Income, Spending Score). K-Means Clustering: Applied Elbow Method (inertia) to determine optimal clusters across feature subsets (Age-Spending Score, Income-Spending Score, and combined). Visualized boundaries in 2D and employed Plotly for 3D cluster analysis. Toolset: Python (NumPy, Pandas), Matplotlib, Seaborn, Plotly, scikit-learn.				
		olotlib, Seaborn, Plotly, scikit-learn.		ia employea	
Result		five distinct groups using K-Means clust	tering, allowin		
Result COURSEWC	Toolset: Python (NumPy, Pandas), Matp Successfully segmented customers into	five distinct groups using K-Means clust	tering, allowin		
	Toolset: Python (NumPy, Pandas), Matp Successfully segmented customers into marketing strategies based on demogra ORK & SKILLS Statistical Modelling for Business Analyt Management Introduction to computing the statistical materials and statistical materials.	five distinct groups using K-Means clust phic and behavioral data. ics Probability & Statistics Operation and the content of the content		g for targeted *in progres	
COURSEWO <i>Relevant</i>	Toolset: Python (NumPy, Pandas), Matp Successfully segmented customers into marketing strategies based on demogra DRK & SKILLS Statistical Modelling for Business Analyt	five distinct groups using K-Means clust phic and behavioral data. ics Probability & Statistics Operation and the content of the content		g for targeted *in progres	

ACHIEVEMENTS & EXTRACURRICULAR

- GATE DA 2025 (Data Science and AI): All India Rank 663, 98.84th Percentile
- Actively participated in organizing the annual cultural fest activities as a Member of Team Cultural Affairs at NIT Jalandhar.