Krishna Shanmughan

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EDUCATION			
YEAR	QUALIFICATION	EDUCATIONAL INSTITUTION	PERCENTAGE
2025 - Present	M.Tech Department of Management Sciences	Indian Institute of Technology Kanpur	-
2019-2023	B. Tech Mechanical Engineering	Government Engineering College Thrissur, Kerala	7.78 CGPA
2018	Higher Secondary Education	Don Bosco HSS Mannuthy, Thrissur, Kerala	91.33%
2016	Secondary Education	Government Higher Secondary School Kizhakkencherry, Palakkad, Kerala	95.46%

Graduate Engineer T	rainee @ Apollo Tyres Ltd. (Aug'23-March'24			
• Worked i	n RMS (Raw Material Stores) operations.			
PROJECTS Customer Segmentation Machine Learning Clustering (GitHub Link) (Self Project)				
Approach	 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 of demographic and behavioral data.			
Big Mart Sales Predic	tion Machine Learning Linear Regression (GitHub Link) (Self Project)			
Objective	To build a predictive model and find out the sales of each product at a particular store.			
Approach	 Analyzed a dataset of 8523 entries with 12 features, detailing characteristics of individual products. Conducted comprehensive EDA, including data visualization and bivariate analysis. Imputed missing values using statistical methods and performed VIF-based feature selection. Treated outliers and engineered features to enhance model performance. Implemented Linear Regression, Gradient Boosting Regressor, XGB Regressor, Lasso, and Ridge models for prediction. 			
Result	Best result shows the Gradient Boosting Regressor with 0.6 Rsquare and RMSE of 1038.2			
COURSEWORK AND S	KILLS			
Academics Courses	Probability & Statistics* Operations Research for Management* Data Mining and Knowledge Discovery* Introduction to Computing*			
Technical Skills	Python* Machine Learning* Power BI* MS Excel MS PowerPoint			
Non-Technical Skills	Analytical Thinking Problem Solving Approach Strategic Thinking Decision Making Adaptability Team Management Communication Skills Leadership Team Work Initiative Taking Skill			
EXTRACURRICULARS				

- SAEINDIA Member (2019–2023), GECT: Actively participated in national-level student vehicle competitions.
- Suspension Lead eBAJA 2023: Led suspension system development and testing for electric off-road vehicle.
- Participant eBAJA 2022: Contributed across multiple areas including steering, assembly, and testing.
- Participant MEGA ATV Championship 2022: Assisted in vehicle preparation and performance during the national-level ATV event.

ACHIEVEMENTS

- Secured AIR 84 in PI-GATE 2025.
- Secured AIR 16 EBAJA 2023 (National-level student vehicle competition conducted by SAEINDIA).
- Secured AIR 33 EBAJA 2022 (National-level student vehicle competition conducted by SAEINDIA)
- Secured Rank 6 MEGA ATV Championship 2022 (National-level student vehicle competition conducted by AUTOSPORTS INDIA).
- Secured 3rd Position in Diagrammatic Reasoning, SAEINDIA Tier II Convention (2019-2020).