

EDUCATION

Degree/Certificate	Institute	CPI/%	Year
M. Tech (Department of Management Sciences)	Indian Institute of Technology, Kanpur	-	2024 -2026
M.A. Economics	IGNOU Delhi	66.81% (First Division)	2021-2023
B. Tech (Mechanical Engineering)	NIT Allahabad (MNNIT)	9.72	2009-2013
Higher Secondary Education	St. Joseph Sr. Sec. School, Kanpur	87.4 %	2008
Secondary Education	St. Joseph Sr. Sec. School, Kanpur	88.3 %	2006

KEY PROJECTS

FLIGHT TICKET PRICE PREDICTION | Linear Regression | (Self Project) [LINK](#)

Objective	We all know the ups and downs of the flight ticket prices. By using supervised learning my project predicts the future ticket price
Approach	<ul style="list-style-type: none"> ▪ Predicted flight ticket price using Linear Regression based on features like Cabin Class, rate, Price Class, etc. ▪ Performed EDA, pre-processed the data and used Lasso Regularization for important feature selection. ▪ Used R-squared (0.97), Adj. R-squared (0.97), RMSE, RMAE as primary evaluation criteria ▪ Also checked multicollinearity and other statistical measures to meet the model's assumptions and better performance
Result	Best result shows the R-squared value 0.97

BINARY CLASSIFICATION | Classification | (Self Project) [LINK](#)

Objective	The objective is to classify whether or not the students will be admitted. This dataset contains 400 records with 4 attributes.
Approach	<ul style="list-style-type: none"> •EDA includes data visualization, descriptive analysis, univariate, bivariate analysis, heatmap for correlation. – Decision Tree Classifier, Logistic Regression and KNN models applied with hyper-tuning and compared based upon Accuracy Score.
Result	KNN is finalized with accuracy of 72.15 percent

CUSTOMER SEGMENTATION ANALYSIS | Clustering | K-means | (Self Project) [LINK](#)

Objective	To segment the customers into different clusters so as to target each segment with a specific marketing deal.
Approach	<ul style="list-style-type: none"> • Applied RFM analysis & calculated Recency, Frequency and Monetary values for each customer. • Used K-means clustering to segment customers. Elbow curve, Silhouette score was used to find optimum clusters. • Visualized the clusters of customers on a 3D scatter plot with Recency, Frequency & Monetary values as the axes.
Result	The customers were segmented into 3 groups: 'Best customers', 'New Customers', & 'Customers about to churn'

WORK EXPERIENCE (11 Years)

GTE, Senior Engineer and Assistant Manager, Bajaj Auto, Research & Development, Pune

Job Profile	<ul style="list-style-type: none"> •Data Analysis, Visualization and Programming, Parameter Optimization for Engine Calibration. •Induction training in Job Shop Scheduling, Order Management, Inventory Control, Bill of Material, Just-In-Time (JIT), Lead Time Management, Operations Management, Project Management, Six Sigma, Vendor Management, Warehouse Management
Projects	•Engine Calibration of Pulsar NS 200, KTM Duke 250. KTM Duke 350

Material Management Officer, Oil & Natural Gas Corporation (ONGC), Mehsana, Gujarat

Job Profile	•Procurement Procedures, Order Management, Inventory Control, Bill of Material, Just-In-Time (JIT), Lead Time Management, Supply Chain Management, Project Management, Six Sigma, Vendor Management, Warehouse Management
Projects	•Worked on key projects of ONGC for Facility Material Management

Defence Research & Development Organization, Ministry of Defence, Government of India

Job Profile	•Dynamic and Static Testing of Payloads, Modelling & Simulation, Design and Fabrication, Data Recording, Data Visualization, Pre-estimation Programming using MATLAB & Microsoft Excel, Development of Testing Methodologies etc.
Projects	•Development of Warheads & Testing Methodologies •Design and Development of New Testing Facility

COURSEWORK AND SKILLS

Relevant Courses	Probability & Statistics Statistical Modelling for Business Analytics Introduction to Computing Operations Research for Management
Online Courses	Python for Machine Learning and Data Science Masterclass -Udemy The Complete SQL Bootcamp – Udemy
Skills	Python ML Libraries: NumPy, Pandas, Matplotlib, Scikit-learn EXCEL SQL
Soft Skills	Team Management Leadership Decision Making Communication Skills Adaptability Teamwork

ACHIEVEMENTS AND PORs

• **Best Scientist of the Year Award** •**Design & Development of New Facility** •**AIR 82 in UPSC Engineering Services** • Secured **AIR 2** GATE 2018, **AIR 3** GATE 2019, **AIR 11** GATE 2020, **AIR 37** GATE 2023, **AIR 35** GATE 2016, **AIR 289** GATE 2014 • **Merit Scholarship Holder** for 4 years of Btech for exceptional academic performance • **10 CGPA** in 3 Semesters and above 9.5 CGPA in 4 Semester • Project Officer for National Level Projects •Trial Officer • Member Secretary of Committees • Coordinator Techfest Avishkar at MNNIT Allahabad