

ACADEMIC QUALIFICATIONS			
Year	Degree /Board	University /Institution	%/CGPA
2025*	Post Graduate Diploma in Business Analytics	IIM Calcutta, IIT Kharagpur, ISI Kolkata	-
2019	B. Tech (Hons.) Mechanical Engineering	Indian Institute of Technology, Kharagpur	6.69/10
2015	CLASS XII	Narayana Junior College	96.7 %
2013	CLASS X	V. V. Central Public School	10/10
KEY SKILLS/TOOLS		Statistical Inference, ML, Predictive Modeling, DL, NLP, Python, R Programming, SQL, Tableau, Office 365	
WORK EXPERIENCE (38 Months)			
Reliance Industries Limited		Manager	Jamnagar (Jul '19 - Sep '22)
Roles and Responsibilities	<ul style="list-style-type: none">■ Planned and Monitored maintenance activities of 1000+ rotary and static equipments at FCC/PRU plants■ Effectively managed 20+ supervisors, and 500+ workers, ensuring compliance with statutory requirements■ Forecasted spares requirements, optimized inventory, and automated procurement for timely availability■ Trained 3 new FTEs on SAP-PM/MM & R-CoW at FCC during high attrition, while managing daily activities		
Achievements/Impact	<ul style="list-style-type: none">■ Awarded R-Samman for detecting CW pump shaft failure proactively, preventing potential ₹1.5 Cr+ loss■ Implemented R-CoW, analyzed 2000+ permits, reducing them by 40% Rated A+ for 2 consecutive years		
Projects	<ul style="list-style-type: none">■ Commissioned rotary equipments for South Asia's inaugural Halo-Butyl Rubber plant in Jamnagar, India■ Scheduled tasks and procured necessary materials for a project increasing HPIB plant capacity by 130%■ Led 5+ turnarounds, balancing manpower and inventory, ensuring 100% compliance to timelines & safety		
AWARDS AND ACHIEVEMENTS			
Scholastic Achievements	<ul style="list-style-type: none">■ Achieved Top 0.10% in JEE Advanced 2015 and Top 0.68% in JEE Mains 2015 among 12+ Lakh applicants■ Achieved 99.16% in CAT 2022 Ranked 392 (Top 0.28%) among 1.39 Lakh applicants in TS EAMCET'15		
Case Competitions	<ul style="list-style-type: none">■ National Finalists out of 670+ registrations in “6 Degrees”, Analytics competition organized by IIM Trichy■ Runner-up in FinOverse, a FinTech Strategy Case Competition, by Masters' Union, out of 1022 participants		
ACADEMIC PROJECTS			
Length of Stay prediction (Regression)	<ul style="list-style-type: none">■ Built Regression models to predict Length of stay of patients on a dataset (100K+ records, 27 attributes)■ Addressed Multicollinearity using VIF Applied OLS & polynomial regression; Lasso for feature selection■ Employed Residual analysis for model validation, outlier detection Improved R2 (22%↑) using XGBoost		
Vehicle Sales forecasting (Time Series)	<ul style="list-style-type: none">■ Forecasted vehicle sales for 12 months using past 10 years data; removed trend by 1st order differencing■ Performed STL decomposition; Checked stationarity using ADF test; Analyzed ACF-PACF plots for SARIMA■ Used Ljung-Box for residuals; Selected best model using AIC & BIC; Achieved MAPE of 5.78% on test data		
Deep Topic Modelling (Text Analytics)	<ul style="list-style-type: none">■ Created a topic modeling framework on iPhone reviews; preprocessed the text (tokenized, lemmatized)■ Applied Latent Dirichlet Allocation (LDA); Identified six optimal topics based on coherence score metrics■ Increased coherence score (↑11%) using Supervised Deep Topic Modeling, integrating BERT and K-Means■ Identified 6 top topics: Camera, Service, Battery, Value for Money, Customer Support, and Amazon Delivery		
Beverage Sales (Supply Chain Optimisation)	<ul style="list-style-type: none">■ Optimised supply chain on the distribution side and simulated alternate strategies for a beverage company■ Forecasted demand using SARIMA & Holt-Winters and evaluated the current demand fulfillment using LPP■ Suggested D2C, warehouse addition, Outsourcing; lead to 6.8% in profits and 100% demand satisfaction		
ADDITIONAL PROJECTS			
Credit Card Default Prediction (Classification)	<ul style="list-style-type: none">■ Built classification model for credit card default prediction on 30K+ historical credit dataset & 24 features■ Applied Oversampling (SMOTE) for balancing data; used Logistic Regression, Random Forest and XGBoost■ Performed hyperparameter tuning and improved F-beta score from .80(LR) to .84 & attained AUC of 0.87		
News Topic Classification (NLP)	<ul style="list-style-type: none">■ Built a model to classify news articles into 4 topics (World, Sports, Business, Science) using 2.5K+ articles■ Leveraged Word2Vec embeddings, trained an Artificial Neural Network to achieve a macro F1-score of 0.49■ Applied bi-directional RNN, LSTM [macro F1-score:0.67]; attained a higher macro F1-score 0.90 with BERT		
Image Classification (CNN)	<ul style="list-style-type: none">■ Developed an ASL image classifier to identify 36 different signs from 2.5k+ images using transfer learning■ Employed ResNet50 and InceptionV3, achieved 95.7% accuracy with ResNet50 after Data augmentation		
Customer Profiling (Clustering)	<ul style="list-style-type: none">■ Segmented 9K+ credit card users by spending patterns for targeted marketing; used PCA for cluster profiling■ Used Elbow-plot to find opt K; Achieved Silhouette Score (0.4), Davies Bouldin Index (0.8) with K-Means		
POSITIONS OF RESPONSIBILITY & EXTRA CURRICULARS			
PGDBA Magazine Team	<ul style="list-style-type: none">■ Contributed articles on Big Data - Retail's Transformation and GPUs - The Parallel Processing Powerhouses■ Conducted & curated interviews of esteemed academicians and industry practitioners in the ML community		
Basketball	<ul style="list-style-type: none">■ Winners-Section Wars (IIM C); Sangharsh (Inter-IIM) Contingent member; Captain of SBP Hall (IIT Kgp) '24		
ELECTIVES : FRM, NLP, PRO, Games & Information , SAAPM		INTERESTS : Basketball, Carroms, NBA	