

ACADEMIC QUALIFICATIONS

Year	Degree /Board	University /Institution	%/CGPA
2025*	Post Graduate Diploma in Business Analytics	IIM Calcutta, IIT Kharagpur, ISI Kolkata	-
2021	B. Tech Mechanical Engineering	IIT Delhi	9.33/10
2017	CLASS XII	SGRR Public School, Ludhiana	89.6 %
2015	CLASS X	DAV Public School, Ludhiana	9.8/10

KEY SKILLS/TOOLS Statistical Inference, Time Series Forecasting, ML, NLP, Python, SQL, Tensorflow, Pandas, Power BI

AWARDS AND ACHIEVEMENTS INSTITUTE RANK – 1 (PGDBA 2023-25)

Scholastic Achievements	<ul style="list-style-type: none"> ■ PGDBA: Awarded merit-based prize in 1st Sem, ISI Secured 10/10 grade in 15/17 subjects graded till now ■ Secured AIR-360 in JEE-Mains 2017 among 1.1 million candidates Secured AIR-823 in JEE-Advanced 2017 ■ Secured AIR-3 in the ISI's MS in Quantitative Economics (MSQE) exam '23 Secured AIR 1341 in KVPY 2016 ■ Awarded Summer undergraduate Research Award for research project done in summer 2019 by IRD, IITD
Case Competitions	<ul style="list-style-type: none"> ■ Ranked (1st/385) in Unravel 4.0, IIM Sambalpur '24 worth 30K Ranked (2nd/350+) in Networsify, IIT Kgp ■ National Finalist in Finalytics, IIT Kharagpur, 23 Ranked (8th/940) in IDB Analytics, IIM Calcutta, 2023
Business Analyst internship	<ul style="list-style-type: none"> ■ Awarded PPO for extraordinary performance as Business Analyst intern in OYO Hotels & Homes in 2020 for implementing property wise Recommendation System for Price regulation of unoccupied beds to ↑ revenue
Certifications	<ul style="list-style-type: none"> ■ Financial market & Financial data analysis course by Msc-Quantitative Finance, WorldQuant University'23

WORK EXPERIENCE (22 Months)

Bajaj Auto Limited	Assistant Manager (R&D)	Pune (Sep '21 - Jul '23)
Responsibilities & Deliverables	<ul style="list-style-type: none"> ■ Spearheaded the team of 5 members and successfully implemented an end-to-end Mini-Chetak EV project ■ Developed Test plans, managed vehicle prototype, pilot & SOP batch builds, resolved all DFA, DFM concerns 	
Communication & Initiatives	<ul style="list-style-type: none"> ■ Coordinated with 5+ stakeholders across horizontals, testing, PM, ensuring prompt execution of projects ■ Oversaw initial design phase for Motorcycle EVs across different segments, including mass and sport models 	
Dashboarding & Automation	<ul style="list-style-type: none"> ■ Developed Excel dashboards for MPL, benchmarking data of EV scooter projects for data-backed decisions ■ Automated the process of 3D common part replacement in NX, generating savings of 10% per EC validation 	
Business Impact & Recognition	<ul style="list-style-type: none"> ■ Addressed Quality issues and implemented VAVE's in existing projects resulting in total savings of ₹1.43 Cr ■ Recognized as top-performing manager (Ranking Cluster-1) in annual performance assessments of 2022 	

ACADEMIC PROJECTS

Length of stay prediction (LOS) (Regression)	<ul style="list-style-type: none"> ■ Built Regression model to predict LOS of patient on dataset having 100K+ observations & 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
Wheat Price Forecasting (Time Series)	<ul style="list-style-type: none"> ■ Forecasted Wheat spot Price for next 5 months using past 13 years ICE data removed trend by differencing ■ Utilized ADF test to verify stationarity, analyzed ACF-PACF plots for AR-MA order and tuned SARIMA model ■ Applied Ljung-Box for residuals, Reduced MAPE to 3.3%(30%↓) by using USD index as exogenous variable
Extracting Customer needs using UGC (NLP)	<ul style="list-style-type: none"> ■ Built CNN based text classifier to filter informative sentences from UGC data (Amazon Oral-care reviews) ■ Fine tuned the word2vec (skip-gram) word embeddings Achieved F1 score of 0.69 and Precision of 0.785 ■ Implemented Ward's Clustering & RAG based Chatbot for extracting customer needs from filtered content
Portfolio Optimization	<ul style="list-style-type: none"> ■ Utilized MPT on 5 Indian stocks; Extracted data from Yahoo Finance and generated Efficient Frontier Curve ■ Optimized the portfolios to achieve a maximum Sharpe Ratio of 1.07 and a minimum volatility of 8.34 %
Song Recommender System (Graphs)	<ul style="list-style-type: none"> ■ Built graph-based song recommender system on Spotify data of 1 million playlists, 2 million unique tracks ■ Implemented GCN, Graph Sage & GAT for link prediction task, achieved BPR loss of 0.15, Recall @300 of 0.6

ADDITIONAL PROJECTS

Image-captioning (Deep learning)	<ul style="list-style-type: none"> ■ Generated textual captions for 6.7k images using pre-trained VGG Net as encoder and LSTM based decoder ■ Explored & Fine Tuned with Vision Transformers (ViT-base16) as encoder Improved SPICE score (16%↑)
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 & XGBoost ■ Performed hyperparameter tuning and improved F-beta score from .80(LR) to .84 & attained AUC of 0.87

POSITIONS OF RESPONSIBILITY & EXTRA CURRICULARS

Event Secretary (PGDBA Conclave)	<ul style="list-style-type: none"> ■ Spearheaded 3 portfolios & a team of 6 to host Trilytics'24, flagship analytics conclave, liaising 3 institutes ■ Executed budgeting, scheduling, marketing campaigns; successfully secured sponsorship deals with 100%↑
Student Mentor	<ul style="list-style-type: none"> ■ Mentored First year UG students of IITD to ensure their smooth transition and seamless journey in college

ELECTIVES : Deep Learning, Econometrics, Financial Risk Mgmt

INTERESTS : Badminton, Yoga