

ACADEMIC QUALIFICATIONS

Year	Degree /Board	University /Institution	%/CGPA
2025*	Post Graduate Diploma in Business Analytics	IIM Calcutta, IIT Kharagpur, ISI Kolkata	-
2020	B.Tech Chemical Technology	Harcourt Butler Technical University	7.43/10
2015	CLASS XII	Central Hindu School (BHU), Varanasi	93.00 %
2013	CLASS X	Central Hindu School (BHU), Varanasi	10/10

KEY SKILLS/TOOLS Deep Learning, Machine Learning, Time Series Analysis, Business Intelligence, Python, SQL

WORK EXPERIENCE (22 Months)

Escorts Limited	Supplier Quality Analyst	Faridabad (Aug '20 - May '22)
Leadership	■ Led a team of 6 associates to audit 230+ supplier plating plants for preparing annual supplier ratings ['22]	
Business Analytics Intelligence	■ Negotiated pivotal supplier contracts , Transitioned hardware supplier to automotive plating, ↓ CC by 30 % ■ Managed stakeholders—P&SC, suppliers, external partners; fostering collaborations , 20% on-time growth . ■ Excel forecasting enabled countermeasures for >5% supplier defect rate, optimized resources, saved \$1.2M. ■ Leveraged dashboards to track quality KPIs like On Time Delivery and FPR; minimized supplier downtime	
ACHIEVEMENTS	■ Secured top performance rating among 45+ employees in Oct'21 for handling all 90+ customer complaints. ■ Promoted to lead analyst role for spearheading initiatives in the supplier quality & process improvements.	

AWARDS AND ACHIEVEMENTS

Case Competitions	■ Campus finalists (Top 2%ile) in Tata Imaginative'23 (2.6 lac+) & Coca-Cola disrupt'23 (90k+ participants) ■ National Finalist (top 5 out of 1398 teams) in the Enigma business challenge conducted by XLRI Delhi['23]
Scholastic Achievements	■ 99.35%ile in CAT '22 QA Top 2.6%ile in JEE Mains '16 1570 rank in UPSEE '16 among 1.8+ lac candidates. ■ Secured IR 1284 in Int. Maths Olympiad '12 among 100k+; represented school at MOEF Green Olympiad'11 .
Certification	■ JP Morgan Quant Research Program on Forage BCGx GenAI job(AI powered Chatbot) simulation on Forage

ACADEMIC PROJECTS

Airline passengers forecasting (Time series)	■ Performed time series analysis on International Airline Passengers data of the past 10-years using SARIMA ■ Checked stationarity using ADF test , analysed ACF-PACF plots for SARIMA order & Ljung-Box for residuals ■ Monitored AIC, BIC for optimum model selection & achieved MAPE score of 0.53 by optimal SARIMA model
Salary prediction (Regression)	■ Predicted employee monthly salary utilizing MLR models on dataset with 32 features ; applied OH encoding ■ Checked multicollinearity using VIF & feature significance using t-tests ; Outlier detection using Jack-Knife ■ Error analysis via QQ plot & KS Test , improved R² to 0.946 using Ridge regression from baseline OLS model
FakeReview Detection (NLP)	■ Developed classifiers leveraging ML & BERT-centric models for classifying hotel reviews into truthful & fake ■ Performed data-preprocessing; used CountVectorizer and TF-IDF in Naive Bayes to get accuracy of 86.5% ■ Leveraged ensemble techniques; AdamW optimizer; enhanced accuracy to 91% utilizing RoBERTa+ LSTM
Portfolio Optimization	■ Collated over 18 months of daily stock prices of 20 NSE-listed firms to find the optimal investment portfolio ■ Used Markowitz as a base model; Employed Hidden Markov Model (5 states), calculated transition matrix ■ HMM outshoned Markowitz with returns 1.25 (34%↑) , volatility 0.18 (16%↓) & Sharpe ratio 7.09 (59%↑)

ADDITIONAL PROJECTS

Customer Segmentation	■ Analyzed 25k+ Indian bank customers, performed feature engineering, RFM analysis, and incremental PCA . ■ Identified 5 segments with K-Means, Hierarchical, DBScan ; achieved silhouette score 0.62, DB score 0.63
X-Ray Pneumonia Detection (CNN)	■ Developed a binary classification model for 5.8k+ Pediatric Chest X-ray images for identifying pneumonia ■ Normalised pixels and resized images; leveraged transfer learning on XceptionV3 and ResNet-50 model ■ Used early stopping to overcome overfitting; improved recall to 0.98 via partial learning on VGG16 model
Gen AI (LLM)	■ Implemented Google PaLM & LangChain to translate natural language inquiries into SQL queries for a store. ■ SQL tasks handled efficiently using few-shot learning with the Hugging Face embeddings and ChromaDB . ■ Created a simple web-based UI using Streamlit to facilitate interaction with and querying MySQL database
Uplift Modelling	■ Employed uplift modeling (14M records) to identify customers who're most likely influenced by a campaign ■ Statistically asserted the significance of CATE ;tackled the class imbalance by clustering based undersampler ■ Used GWuplift using XGB as base learner & achieved uplift QC of 0.3 ; suggested a list of target customers

POSITIONS OF RESPONSIBILITY

Jt. Secretary,HBTU Kanpur	■ Managed 50+ final placements , 7 academic seminars; Nurtured relations with 15+ companies (65+ offers) ■ Transformed the placement process to the digital format and maintained alumni relations for two years.
Casebook Team	■ Devised case solutions & KPIs for Healthcare & logistics industry cases in 2nd draft of PGDBA DS casebook
NCC	■ A Certificate cadet of UP jr div regiment for 3 years and qualified for SSB interviews for the Indian Navy '17 .

ELECTIVES : Deep Learning, FRM , Supply chain Analytics

INTERESTS : Football, Cricket, Music