

ACADEMIC QUALIFICATIONS

Year	Degree /Board	University /Institution	%/CGPA
2025*	Post Graduate Diploma in Business Analytics	IIM Calcutta, IIT Kharagpur, ISI Kolkata	-
2019	B.Tech Mechanical Engineering	Indian Institute of Technology Ropar	6.57/10
2015	CLASS XII	Mahatma Hansraj Modern School	95.2 %
2013	CLASS X	Rani Laxmibai Public School	94.67 %

KEY SKILLS/TOOLS C++, Python, Pandas, SQL, Predictive Modeling, Time Series Forecasting, NLP, Tensorflow, Tableau

AWARDS AND ACHIEVEMENTS

Academic Achievements	<ul style="list-style-type: none"> Secured position in Top-10 %ile of PGDBA batch 9 Secured Top-2 grades in 16/17 courses graded till now Reached interview stage (among the top 0.50 %ile out of 1.5L+ aspirants) of the RBI Grade B exam (2022) Achieved All India Rank of 4605 out of 1.6L+ aspirants (among top 3 percentile) in JEE Advanced (2015) Scored 100/100 in Mathematics and Computer Science subjects in the ICSE 10th Board Examination 2013
Case Competitions	<ul style="list-style-type: none"> Ranked (2/385) in Networsify, trucks routing problem competition, worth Rs 30k organised by IIT Kgp'23 Ranked (9/940) in IDB Analytics 3.0 interactive dashboard competition worth Rs 30k organised by IIMC'23 National Finalist (6/352) in Datathon 2.0 loan default case competition worth Rs 16k organised by IIMC'23

INTERNSHIPS (2 Months)

Tokyo Gas	AI Intern (PPO)	Tokyo, Japan (May '18 - Jul '18)
Deliverables	<ul style="list-style-type: none"> Worked in Fundamental Tech Research Institute Simulated the impact of active faults on buried pipelines Achieved 180x decrease in computing time of modeling an earthquake's impact on soil using Discrete EM Implemented CNN to detect cracks using TOFD images of an underground pipeline with AUC-ROC of 0.91 	

ACADEMIC PROJECTS

Pre-Owned Car Price Prediction (Regression)	<ul style="list-style-type: none"> Predicted price of pre-owned cars performed Exploratory Data analysis(EDA) to study features and outliers Performed One Hot Encoding, box-cox transforms for skewness and handled multicollinearity using VIF Implemented MLR & selected features with backward elimination; explored regularizations (Ridge & Lasso) Validated model using error analysis explored tree-based model(RF & XGB) & achieved best R² 0.88(XGB)
Wind Energy Generation Forecasting	<ul style="list-style-type: none"> Forecasted monthly wind energy Generation for a period of 1 year using past ~17 years data with SARIMA Checked stationarity of transformed data with ADF test, removed trend by differencing, order by ACF-PACF Selected model with the best AIC, verified residuals using Ljung-Box test and achieved an MAPE of 4.74%
PC Prediction (Classification) BTech Project	<ul style="list-style-type: none"> Classified proton conductivity (high/low) of sulfonated polyimide polymer to find a low cost PEM material Featurization using Bag of bonds and QSPR descriptors Iterative feature selection using the Relief method Implemented C4.5 - a Decision Tree classifier (using 10-fold CV) with accuracy and F1 score of 0.71 & 0.70
Financial Fraud Detection (Graph-ML)	<ul style="list-style-type: none"> Built GNN based fraud user recognition on Finvolution data of 3.7M+ node (user) class imbalance (78:1) 17 demographic features of each user used as initial node embedding Implemented GCN and GraphSAGE Modelled message passing to incorporate the structural information Achieved AUC-ROC of 0.73 & 0.76
Customer Segmentation (Clustering)	<ul style="list-style-type: none"> Performed customer segmentation on retail transaction dataset (3.5L+ obs.) for a targeted ad campaign Implemented RFM analysis for feature engineering; applied PCA; used K-means, agglomerative and DBScan Identified opt. 4 segments with customer profiling by elbow method; silhouette score-0.83 & DB index -0.41

ADDITIONAL PROJECTS

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
Image Captioning (Deep Learning)	<ul style="list-style-type: none"> Generated textual captions for 6.7k images using pre-trained ResNet as encoder and LSTM based decoder Explored & Fine Tuned with Vision Transformers (VIT-base16) as encoder Improved SPICE score (16%)
Portfolio Optimisation	<ul style="list-style-type: none"> Utilized MPT on 5 Indian stocks; taking data from Yahoo Finance & generated the Efficient Frontier Curve Optimized the portfolios to achieve a maximum Sharpe Ratio of 1.07 and a minimum volatility of 08.34 %

POSITIONS OF RESPONSIBILITY & EXTRA CURRICULARS

Placement Representative	<ul style="list-style-type: none"> Conducted Final Placements 2024 attained increase in median CTC by 63%, mean by 51%, max by 207% Created centralized database for the first time in history of PGDBA facilitated sponsorship for Trilytics 73% PPO conversion rate onboarded 63% more recruiters and an international recruiter after 6 years
Constitution and ISMP Coordinator	<ul style="list-style-type: none"> Drafted amendments for the Student Constitution of IIT Ropar for enhanced efficacy and accountability Headed a team of 30 mentors and restructured the SMP to ensure smooth transition of fresher in IITRopar
Dramatics	<ul style="list-style-type: none"> Part of bronze medal winning team in the Dramatics competition in Inter IIT Cultural Meet 2017, in IIT K

ELECTIVES : Deep Learning, Econometrics, Financial Risk Mgmt **INTERESTS** : Reading plays, Public Policy