

ACADEMIC QUALIFICATIONS			
Year	Degree /Board	University /Institution	%/CGPA
2025*	Post Graduate Diploma in Business Analytics	IIM Calcutta, IIT Kharagpur, ISI Kolkata	-
2021	B.Tech Metallurgical Engineering	Indian Institute of Technology Varanasi (BHU)	76.2 %
2017	CLASS XII	Army Public School Chandimandir	76.4 %
2015	CLASS X	Army Public School Chandimandir	8.2/10
KEY SKILLS/TOOLS		Machine Learning, Data Visualization, Python, SQL, Power BI, Excel, Communication Skills	
AWARDS AND ACHIEVEMENTS			
Academic Achievement	■ National Level Merit Scholarship for academic excellence by the Indian Army during B. Tech 2nd Year 2018 ■ 5th Rank - TriCity in ANITSE organized by ace tutorial Ranked in the Top 1%ile in CAT22 quant section		
Certification	■ Certified Lean Six Sigma Green Belt from KPMG Completed BCG X Data Science simulation on Forage plt		
Data Science Case	■ 1st Rank in Customer Segmentation case & won worth ₹75000 in TransOrg Analytics organized by IMT-G ■ 2nd Rank in Supply Chain Analytics case and won cash prize of ₹10000 organized by DOMS - IIT Madras ■ 2nd Rank in Employee Churn Prediction case and won cash prize of ₹7500 organized by Masters' Union ■ 3rd Rank in Data Visualization and Analytics case and won cash prize of ₹5000 organized by IIM Ranchi		
Business Case	■ 2nd Rank in Intra-Hospital Patient Transfer case, IMT- H 2nd Rank in Profitability of Hotel case, NIT DGP		
INTERNSHIPS (2 Months)			
T.I.M.E Pune Centre		Business Analyst Intern	Pune (May '23 - Jun '23)
Roles & Responsibilities	■ Built Power BI Dashboard and conducted data analysis on TIME's courses for strategic decision-making ■ Evaluated discount and revenue performance across multiple centers to allocate incentives for managers ■ Designed an inventory management system using Excel macros to automate stock tracking & distribution		
ACADEMIC PROJECTS			
Loan Amount Prediction (Regression)	■ Predicted loan amount to be disbursed to customers by training the model with 30k records & 23 features ■ Handled multicollinearity - VIF , detected heteroscedasticity - residual plot, and outliers - Cook's distance ■ Evaluated Lasso & Ridge, XG-Boost and RF models Achieved 20%↑ in adj. R ² with XGB Regressor w.r.t MLR		
Customer Segmentation (Clustering)	■ Executed customer segmentation analysis on 5L+ records & 8 features for targeted marketing strategy ■ Applied RFM feature engineering, then PCA Performed K-Means and Agglomerative clustering methods ■ Identified 3 clusters using Elbow plot method; K-Means has best Silhouette score of 0.23 & DB-Score of 1.3		
Bank Customer Complaints Classification (NLP)	■ Constructed a classification model using GRU, Bi-LSTM & BERT on 1.8L+ complaints, categorized into 5 cat ■ Addressed class imbalance , Preprocessed text by lemmatization & employed GloVe embedding with 50D ■ Achieved an accuracy of 0.84 (GRU), 0.85 (Bi-LSTM) and 0.88 (BERT) over base model: Logistic Regression		
Brain Tumor Detection (CNN)	■ Architected CNN models to detect brain tumour with 5k+ MRI scan images; Performed data augmentation ■ Leveraged transfer learning(RESNET50 & VGG16). Achieved F1score 0.98 (3%↑) by VGG16 w.r.t custom CNN ■ Implemented U-net model for image segmentation of tumour Fitted with dice loss & achieve 0.4 mean-IoU		
Bike Rides Forecast (Time Series)	■ Forecasted hourly demands of bike rides for a US cab service Executed the ADF test to confirm stationarity ■ Perform STL decomposition Analyzed ACF & PACF plots for ARIMA order & residuals with Ljung-Box Stats ■ Implemented SARIMA models Supervised AIC, BIC for model selection and achieved best MAPE of 12.9%		
ADDITIONAL PROJECTS			
Live Project TransOrg Analytics (Classification)	■ Developed an online payment fraud detection model with 100K+ records and 9 features Performed EDA ■ Applied feature engineering , managed class imbalance using SMOTE & under sampling the majority class ■ Performed hyperparameter tuning in Logistic Regression and Decision Tree Achieved best ROC 0.997		
Questions & Answers System (Gen AI)	■ Designed Q&A system based on RAG by using GPT-3.5 & Langchain Created an interface using streamlit ■ Created chunks and produced embeddings using OpenAIEmbeddings & used Pinecone for vector storage		
Fashion Recommendation	■ Produced top 20 content-based recommendation for 28k+ apparel Vectorized images using RESNET-50 ■ Generated BoW, TF-IDF , weighted Word2Vec& SBERT title vectors Stacked title(SBERT) & image vectors ■ Weighted sum of image, title, brand & colour vectors gave best results with 98% avg Symmetric similarity		
Workforce Mgmt. (Operations)	■ Planned the healthcare providers' allocation in 24 districts Built Dashboard on Power BI to draw insights ■ Forecasted patient volume by Holts-Winter ES Used LPP to minimize cost of salary and penalty for surplus		
POSITIONS OF RESPONSIBILITY & EXTRA CURRICULARS			
Sport Captain(POR)	■ Achieved 1st place in Handball at District Level U-17 Achieved 1st place in basketball (Section War-IIM C)		
Youtube, Volunteered	■ Content creator on current affairs & PGDBA prep Volunteered for Event Management at Trilytics (IIM C)		
ELECTIVES : FRM, Healthcare Analytics, Econometrics, LPT, IBC			INTERESTS : Basketball