



PEEHOO JAIN

ACADEMIC QUALIFICATIONS

Year	Degree /Board	University /Institution	%/CGPA
2025*	Post Graduate Diploma in Business Analytics	IIM Calcutta, IIT Kharagpur, ISI Kolkata	-
2023	B.Tech + MS (Computer Science and Management)	School of Engineering, JNU, New Delhi	8.29/9
2018	CLASS XII	St. Joseph's Convent Sr. Sec. School, Sagar, M.P.	93.4 %
2016	CLASS X	St. Joseph's Convent Sr. Sec. School, Sagar, M.P.	10/10

KEY SKILLS/TOOLS Predictive Modeling, Statistical Inference, Programming, Data Visualization, Python, Excel, SQL

AWARDS AND ACHIEVEMENTS

Academic	<ul style="list-style-type: none"> Secured highest rank with FGPA of 8.29/9 in B. Tech (CSE) + MS (Management) batch 2018-2023 at SE, JNU Obtained 9/9 (A+) for MS(Management) Dissertation; "The Role of FinTech in Sustainability and UN SDGs" Received scholarship (₹ 6lakh+) under Mukhyamantri Medhavi Vidyarthi Yojana by the MP Govt (2018-23) Recognised as NPTEL Star(Believer) session Jul-Dec '22; secured 97.5%ile in CAT'22 & 98.6%ile in XAT'23 Achieved All India Rank 40th in the National Financial Literary Assessment Test (NFLAT) by NCFE (Jan'14)
Case Competitions	<ul style="list-style-type: none"> 2nd Rank/1159 in HRMony, HR-Organizational Structure case in Startups, hosted by IIM-Ahmedabad['23] National Finalist (top 5/627), in E2A-The Analytics Challenge on user dashboard creation, XLRI Delhi['23] National Finalist (out of 283 teams), in Cogentix, for offer acceptance prediction, by IMT-Hyderabad['23]
Certifications	<ul style="list-style-type: none"> Corporate Finance, NPTEL online certification by IIT KGP, obtained 83% marks, among top 2% candidates Financial Accounting, NPTEL online certification by IIT B, obtained 91% marks, among top 2% candidates Management Accounting and Working Capital Management, NPTEL online certifications by IIT Roorkee

ACADEMIC PROJECTS

Producer Price Index Forecasting (Time Series)	<ul style="list-style-type: none"> Performed time series analysis on monthly PPI of Advertising Space and Time Sales; utilizing 96 months data Checked stationarity using ADF test; analyzed ACF-PACF plots for ARIMA order and Ljung-Box for Residuals Compared ARIMA models for optimal model selection; utilizing SARIMA with least AIC of 5.23 & MAPE 2.03
Credit Risk Rating System (Classification)	<ul style="list-style-type: none"> Developed classification model to predict credit worthiness of customers with 100k records & 20+ features. Implemented RFE, ID3 algorithm and PCA for feature selection and extraction, performed under sampling Tuned hyperparameters for XGB using GridSearchCV to achieve an accuracy of 0.79 and F1-score of 0.78
Employee Salary Prediction (Regression)	<ul style="list-style-type: none"> 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
Medical Cost Analysis (Clustering)	<ul style="list-style-type: none"> Inspected the medical cost dataset for identification of high-risk groups through cluster creation and EDA. Employed elbow method to find optimal clusters, KMeans, Agglomerative and DBScan clustering methods Feature engineering using PCA, identified 5 customer segments and achieved a silhouette score of 0.362.
Fake Review Detection (NLP)	<ul style="list-style-type: none"> 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 86.56% Leveraged ensemble techniques; AdamW optimizer; enhanced accuracy to 91% utilizing RoBERTa + LSTM

ADDITIONAL PROJECTS

Underwater Object Tracking (Deep Learning)	<ul style="list-style-type: none"> Refined the Deep Fish Tracker Network (DFNet) and modified its Siamese pipeline for image enhancement Employed UWCNN and SENet as subnetwork of Siamese to learn the appearance similarity and track fishes Utilized data augmentation; MOTA of 97.7%; reduced ID Switches by 36.4% on Fish4Knowledge dataset
Similar Product Recommendation	<ul style="list-style-type: none"> Identified similar e-commerce products based on images & their description using non-parametric learning Extracted feature embeddings from images using pre-trained EfficientNet & DensetNet Deep CNN models Achieved F1-score of 0.84; identified top-k visually similar products by utilizing KNN and tuning thresholds
Portfolio Optimization	<ul style="list-style-type: none"> 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 outshone Markowitz with returns 1.25 (34%↑), volatility 0.18 (16%↓) & Sharpe ratio 7.09 (59%↑)
LLM-Based SQL Query Generator (GenAI)	<ul style="list-style-type: none"> Employed Google PaLM, LangChain to convert natural language questions into SQL queries for a retail store Implemented few-shot learning; using Hugging Face embeddings and ChromaDB for complex SQL queries Created a simple web-based UI using Streamlit, to facilitate interactions with & querying a MySQL database

POSITIONS OF RESPONSIBILITY & EXTRA CURRICULARS

Extra-curriculars	<ul style="list-style-type: none"> Active part of NSS JNU; participated in cleanliness drives, road safety, drug abuse and child safety campaigns Volunteered in the Tree Plantation Drive 2018 (Under MHRD Plantation Master Plan) in the JNU Campus
PGDBA Casebook (ongoing)	<ul style="list-style-type: none"> Collaboratively worked on 2nd version of PGDBAs DS Case Book, with 10+ analytics related business cases Brainstormed on the frameworks, business KPIs and relevant case studies for the Finance and IT industry

ELECTIVES : Machine Learning, Financial Risk Management

INTERESTS : Culinary Enthusiast