ANIMESH PATEL

ACADEMIC QUALIFICATIONS

Year	Degree /Board	University /Institution	%/CGPA
2025*	Post Graduate Diploma in Business Analytics	IIM Calcutta, IIT Kharagpur, ISI Kolkata	-
2016	M.Sc. Mathematics	IIT Bombay	7.2/10
2014	B.Sc. (Hons) Mathematics	Hindu College (Delhi University)	85.7 %
2011	CLASS XII	Jawahar Navodaya Vidyalaya Orai, Jalaun, Uttar Pradesh	91 %
2009	CLASS X	Jawahar Navodaya Vidyalaya Orai, Jalaun, Uttar Pradesh	91 %

KEY SKILLS/TOOLS	Statistical Data Analysis, Statistical Inference, Excel, PowerPoint skills, Python, R Programming, SQL

AWARDS AND ACHIEVEMENTS   INSTITUTE RANK – 2 (PGDBA 2023-25)

Institute Rank	■ **Achieved 10/10 CGPA** in Pre-semester & ISI semester | **Got 10/10 in 11** out of 17 subjects till 2nd semester ■ **Awarded merit-based scholarship** for outstanding academic performance in 1st Sem, PGDBA by ISI Kolkata
IDB IIMC Case	■ **Secured 4th/940** teams in IDB Analytics case by IIM Calcutta | Recommended growth & expansion strategies
UPSC Exam	■ **Top 1%** out of ~10 Lakhs+ of UPSC CSE prelims applicants; qualified for **UPSC mains twice** in 2020 & 2022
IIT JAM	■ **Ranked 119** in JAM (Math-MA) 2014–amongst **top 2%** | **Ranked 97** in JAM (Statistics-MS) 2014 – in top 7%
AISSCE Exam	■ **Got rank-1** in Jawahar Navodaya Vidyalaya Orai in All India Senior Secondary Certificate Exam (CBSE - 2011)

WORK EXPERIENCE (28 Months)

Quess Corp Ltd, Alp consulting ltd	Business Analyst (Client- Abbott)	Mumbai (Jun '16 - Oct '18)

Descriptive Analytics & Visualizations	■ Analyzing past **trends** for **Brand plans**, **KPI tracking** and **correlation** analysis, monthly **reports** & **analysis** ■ Participate in **sales reviews** & **field work,** data liaison for senior management | **Tools** - Excel, PPT, PowerBI ■ Created **Dashboard** for sales team review and Designed **pilot dashboard** for Abbott Nutrition Division India ■ **Data quality** improvement & **automation** drives – for ~55000 HCPs and ~1500+ Hospitals & Nursing homes
Impact & Recognition	■ Recommended **cross engagement** and **dual engagement** strategies, Effective allocation of dieticians & TBE ■ **A/B/C categorization** of HCPs based on overall **profile**; **Saved** nearly **half a day** for **~450+ FF** every month ■ Achieved **highest performance rating** (EE) for **consecutive 2 years** in performance appraisal (in **top 5%**)

ACADEMIC PROJECTS

Length of Stay Prediction (Regression)	■ 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 R^2 (**23%↑**) using **XGBoost**
Crude Oil Import (Time Series)	■ **Forecasted** demand of US crude oil import for next **15** months from past **150** months data utilizing **SARIMA** ■ Used **ADF test** for **stationarity**; removed trend by differencing, analyzed **ACF-PACF plots** to fix **ARMA** order ■ Selected best model based on **AIC** value, verified **residuals** using **Ljung-Box test** & achieved **MAPE** of **5.22%**
Movie Recommender System	■ Built a **Hybrid** recommender system (content based & user-to-user collaborative) | **MovieLens100k** dataset ■ Used **Jaccard** & **Cosine** Similarity, **K-Modes** Algorithm for recommendations | Resolved **cold start problem** ■ Quality of clusters with **silhouette score** (**0.581**-Hierarchical & to **0.696**-K-Modes) | **hit rate (2.66 movies)**
Portfolio Optimization	■ 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 %**
Email Classification (NLP)	■ Built a model to **classify** spam and not spam emails on Dataset of **5.5k+** emails using **Naïve Bayes** and **LSTM** ■ Preprocessed text with **TF-IDF embeddings**, improved **Recall** value of **0.85** (LSTM) from **0.81** (Naive Bayes)

ADDITIONAL PROJECTS

Image Captioning (Deep Learning)	■ Generated textual **captions** for **6.7k** images using **pre-trained CNN** based encoder and **LSTM** based decoder ■ Obtained **Rouge- L** - 0.276, **SPICE** - 0.146, **BLEU** - 0.112 scores for generated summaries on 929 test images
Credit card default prediction (Classification)	■ 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

PGDBA Magazine Team	■ **Authored** - "Leveraging **AI** to Revolutionize Sales in Pharma: An **AI Guide** for **Medical Representatives**" ■ **Edited articles** | **Prepared** questionnaire & **organized** interviews for academicians & industry leaders in AI
Head of Public Relations Team	■ **Led PR team** of **Math Olympiad,** Math assoc., Math dept., IIT Bombay | **Managed** a team of 30 volunteers ■ Connected w/ **150+ schools** & **20+** coachings | **1000+ students'** participation | Improved **revenue by 50%**
MSc Representative	■ **Represented** M.Sc. Math students in Academic & student council meetings | **Bridge** btw faculty and students
Music & sports	■ **Ranked 1 &3** in Dramatics & Music in PG Culturals - IIT Bombay | **Winner** - Volleyball - Hindu College hostel

ELECTIVES : Deep Learning, Financial Risk Mgmt, Econometrics	INTERESTS : Music, Volleyball