

# KAMESH DUBEY

Mumbai, India

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LinkedIn

Portfolio

## PROFESSIONAL SUMMARY

Data Scientist skilled in credit-risk analytics and model development, applying statistical and machine learning methods to strengthen credit-decision processes. Hands-on with GenAI and NLP applications.

## EDUCATION

### Indian Institute of Technology, BOMBAY

M.Sc. Applied Statistics and Informatics

Aug'22 - Dec'24

Mumbai, IN

### Gurukula Kangri University

B.Sc. Mathematics and Computing

Aug'18 - Jul'21

Haridwar, IN

## WORK EXPERIENCE

### Associate Consultant–Financial Risk Management

KPMG Assurance and Consulting Services LLP

Jun'25–Present

Mumbai, IN

- Conducted quantitative validation of **10+** loan scorecards and ECL models using PSI, Gini, Chi-square, and Binomial tests to assess conceptual soundness, ensuring compliance with regulatory model-risk frameworks
- Automated the validation workflow delivering complete quantitative validation results in client-ready format
- Prepared and presented comprehensive model-validation reports summarizing findings and insights to clients

### Data Science Intern

Bluepond AI

Apr–May '25

Chennai, IN

SOV Chatbot for Underwriters

- Built a RAG chatbot with tool-calling capabilities to generate visualizations and insights from the Excel files
- Designed an **AI-driven data pipeline** to extract, clean, and standardize Statement-of-Value (SoV) Excel files
- Fine-tuned a **BERT (99.5% F1)** classifier on a custom dataset to filter non-insurance queries before API calls

Brokers Co-Pilot

- Built an **extraction tool** that extracted **30+** key fields from insurance documents, cutting review time by **80%**
- Revamped document reader module using NLP for space correction and integrated logic for image detection

## TECHNICAL SKILLS

**Technical Skills:** Python, SQL, Excel, Scikit-learn, PyTorch, Pandas, LangChain, AutoGen, Git, Docker, AWS

**Key Coursework:** Machine Learning, Deep Learning, Regression Analysis, Statistical Inference, Optimization

## ACADEMIC PROJECTS

### Reviews Sentiment Analysis – Course Project | GitHub

Aug–Nov '24

Guide – P. Balamurugan, Department of Industrial Engineering and Operations Research, IIT Bombay

- Implemented **NLP** techniques like data cleaning, tokenization, and **lemmatization** to boost model accuracy
- Utilized **TF-IDF** for vectorization and **LSTM** for classification and achieved **87.17%** accuracy on test data
- Developed a **Streamlit** webapp and set up a **CI/CD pipeline** for deployment of Docker container on **AWS**

### Oil Well Failure Prediction | MSc. Project

Jan–Apr '24

Guide – Sanjeev V Sabnis, Department of Mathematics, Bombay

Co-Guide – Prof. Sujit K Ghosh, Department of Statistics, North Carolina State University

- Conducted a comparative analysis of **Logistic Regression** and **Tree-Based Models** for the failure prediction
- Optimized Decision Tree by tuning hyperparameters on feature set, achieving **83%** cross-validated F1-score

### Bank Customers Segmentation | Course Project | GitHub

Aug–Nov '23

Guide – Prof. Siuli Mukhopadhyay, Department of Mathematics, IIT Bombay

- Enhanced interpretability by leveraging **PCA** and **factor analysis** to uncover latent variables in the dataset
- Segmented data using **K-Means** clustering and evaluated clusters via **Silhouette Score** and **Elbow Method**

## SCHOLASTIC ACHIEVEMENTS

- Secured **AIR-50** in Mathematical Statistics, IITJAM 2022 among 2,912 candidates organized by IITR '22
- Achieved a remarkable **Department Rank 3** out of 120 BSc. Students at Gurukul Kangri University '21