Kamesh Dubey

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Linkedin

GitHub

EDUCATION

Indian Institute of Technology, BOMBAY

MSc. Applied Statistics and Informatics

Aug'22 - Dec'24

Mumbai, India

Gurukul Kangri University

Aug'18 – Jul'21

BSc. Mathematics and Computing

Haridwar, India

WORK EXPERIENCE

Associate Consultant-Financial Risk Management

Jun'25-Present

KPMG Assurance and Consulting, Mumbai

- Conducted independent validation of 10+ loan scorecards using PSI, Gini, KS, t-test and chi-square test 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 validation reports with insights and visualizations; supported presentation of findings to the clients

Data Science Intern Apr-May '25

Bluepond AI, Chennai

- Designed an automated data pipeline to clean and standardize the Statement-of-Value (SoV) Excel files
- Annotated and curated over 5k+ insurance-related vs. off-topic queries to fine-tune a BERT model achieving 99.5 f1-score; integrated into SoV-chatbot pipeline to filter off-topic user queries before LLM invocation
- Developed a **RAG-chatbot** integrated with database delivering SoV insights, accelerating decision-making
- Built an extraction tool that pulls 30+ key fields from insurance documents, cutting review time by 80%

ACADEMIC PROJECTS

End-to-End 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

- Performed thorough EDA and **feature engineering**, handled missing values, and addressed data imbalance
- 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 a 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 variable in the dataset
- Segmented data using K-Means clustering and evaluated clusters via Silhouette Score and Elbow Method

TECHNICAL SKILLS

Programming Languages and Tools: Python, R, SQL, MLflow, Git, Docker, AWS Machine Learning Libraries: Pandas, scikit-learn, statsmodels, PyTorch, Langchain

COURSES UNDERTAKEN

Machine Learning Deep Learning Time Series Analysis Statistical Inference Hypothesis Testing Regression Analysis

SCHOLASTIC ACHIEVEMENTS

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

'22 *'21*