

ABHISHEK KADAM

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AI/ML enthusiast with hands-on experience in predictive modeling, data processing, and data mining algorithms. Seeking to leverage my data science skills to solve challenging business problems in a dynamic and collaborative environment.

EDUCATION

BE | 2021 | RGIT | University of Mumbai | **7.36 CGPI**

HSC | 2017 | Maharashtra State Board

SSC | 2015 | Maharashtra State Board

PROJECTS

- **Fund Information Chatbot using RAG:** Developed and implemented a Retrieval-Augmented Generation (RAG) chatbot to manage and provide comprehensive information about various funds for a bank. This project addressed the challenge of customers struggling to get detailed fund information. By leveraging advanced natural language processing techniques, the chatbot enabled quick and accurate retrieval of fund details, improving customer satisfaction and efficiency.

Tools and Framework - OpenAI GPT, Hugging Face Transformers, Langchain, Llama-Index, LLM's, huggingface_langchain, RAG, Vector Database: Pinecone. RAG evaluation: RAGAS

- **Prepayment Risk Model in MBS:** Developed a machine learning model to predict prepayment risk in mortgage-backed securities (MBS). This project focused on forecasting early loan repayments within mortgage portfolios. Utilized advanced analytical techniques and machine learning models to enhance risk assessment, providing valuable insights for optimizing financial risk management decisions.

Tools and Framework - NumPy, Pandas, Sci-py, Scikit-learn, Seaborn, Matplotlib, Flask, Linear Regression, Ridge & Lasso Regression, Logistic Regression, KNN Classifier, Support Vector Machine, Decision Tree, Random Forest, Gradient Descent, Ada-Boost, Gradient Boosting, XGBoost.

- **NPA Prediction Model:** Developed a machine learning model to predict nonperforming assets (NPA) in financial institutions. This project aimed to forecast potential NPAs in loan portfolios. Employed advanced analytical techniques and machine learning models to improve the accuracy of NPA predictions, offering critical insights for better risk assessment and decision-making in financial management.

Tools and Framework – NumPy, Pandas, Sci-py, Scikit-learn, Seaborn, Matplotlib, Flask, Linear Regression, Ridge & Lasso Regression, Logistic Regression, KNN Classifier, Support Vector Machine, Decision Tree, Random Forest, Gradient Descent, Ada-Boost, Gradient Boosting, XGBoost.

ADDITIONAL SKILLS

Deep Learning: Neural Networks, Deep Learning, ANN, CNN, DNN, Transfer Learning, Back Propagation, Activation & Loss functions, optimisers, PyTorch, TensorFlow, Keras

NLP: nltk, TF-IDF, Word2Vec, Bag of Words (BOW), Text understanding, Representation & Classification techniques, RNN, LSTM, Encoder-Decoder, Attention Mechanism, Transformers, Text clustering skills, spacy, genism, textblob, langdetect

AWS: Elastic Compute Cloud, Sagemaker, Notebook instance, AWS container, Simple Storage Services S3, Deployment

Databases: MySQL, 3C (Command, Constrains, Clauses), CRUD operations, Subqueries, Window functions, Joins

MLOps: MLflow, Docker

Web FrameWork: Flask, Streamlit

PERSONAL DETAILS

DOB: 7/4/2000

Languages: English, Marathi, Hindi

Awards and Achievement:

Cleared CDSE-2 Sept 2022 conducted by UPSC.

Attended SSB interview conducted by Indian Army 2 times

April 2023 :- SSC(NT) – 118 / 503993

May 2023 :- SSC(Tech) – 61 / 705400