

Khush Thakkar

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Education

B.Tech in Computer Science & Engineering (Data Science),DJSCE **9.9** | 2024 - 2028

Work Experience

Internship at KBS India Ltd [09/08/24 - 09/09/24]

Researched bonds to see which were good to buy based on market trends and studied Nifty 50 stock performance. Helped collect financial data for investment decisions.

Projects

India AQI Analysis (EDA) ([Github](#)) ([Streamlit](#))

Analyzed Indian air quality data to identify AQI trends, pollutant patterns, and city-wise variations using data cleaning and visualization techniques. Deployed the analysis as an interactive dashboard for easy data exploration.

AQI Forecasting (On-going)

Implementing a deep learning-based AQI forecasting model inspired by research literature, using CNN for feature extraction and iLSTM for time-series prediction on historical air quality data.

Intents Chatbot ([Github](#))

Implemented an AI chatbot using TensorFlow, Keras and NLTK to classify user queries into pre-defined intents; used GloVe embeddings and a Streamlit UI.

Airtel FAQ Bot ([Github](#))

Developed a conversational FAQ bot for Airtel using LangChain; ingesting FAQs with pymupdf, using FAISS to create a vector database, using RAG architecture.

Technical Skills

Programming Languages: Python

ML / DS Stack: Pandas, NumPy, Matplotlib, Plotly, Tableau, Scikit-Learn, TensorFlow, FAISS, Langchain

Committee Experience

Student for Society of Data Science (S4DS)

- Member of the ML team, contributed to Xtract, an annual technical treasure hunt event, by designing an NLP based problem statement involving NLP concepts, logic, and creative reasoning.

Achievements & Certifications

- Certificate of Participation in Code Hunt conducted by IEEE (SPIT) : Ranked 15th out of 150+ students (Certificate)
 - Completed ML Specialisation conducted by [DeepLearning.AI](#) (Certificate)
 - 3x Hackathon Finalist