

# Khush Thakkar

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## Education

B.Tech in Computer Science & Engineering (Data Science), DJSCE

9.9 | 2024 - 2028

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## 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.

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## 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.

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## Technical Skills

**Programming Languages:** Python

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

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## 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.
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## 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