

Mohammed Abdul Jabbar Khan

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Education

- **Gokaraju Rangaraju Institute of Engineering and Technology** Hyderabad
Computer Science and Engineering(Artificial Intelligence and Machine Learning) CGPA:8.77 2021 - 2025

Experience

- **Smart interviews** Hyderabad
Student Mentor Mar 2024 - Present
 - Mentored **200+** students in DSA, helping them build strong problem-solving skills, leading to a **40** percent boost in challenges solved and a **25** percent improvement in algorithm understanding within set timeframes.

Projects

- **Sentiment Analysis with RNN:** Developed a **Recurrent Neural Network** for sentiment analysis on **IMDb** movie reviews using **TensorFlow** and **Keras**. Deployed on a **Streamlit** app, providing real-time positive/negative sentiment predictions. Optimized data preprocessing and model performance to deliver accurate classification.
- **Deep Learning-based LSTM Model for Next-Word Prediction :** Engineered and Deployed Next Word Prediction Model using **LSTM** with **Streamlit**, **TensorFlow** and **Keras**. Trained on Shakespeare's **Hamlet data**. Integrated **early stopping** and **Dropout** for regularization.
- **Corpus Evaluation System:** Devised a Python-based system for extracting, cleaning, and analyzing articles using **BeautifulSoup**, **pandas**, and **NLTK**. Performed sentiment analysis, readability scoring (Fog Index, complexity, and word length), and extracted linguistic features like word counts.
- **Contextual Chat History Retrieval System with RAG:** Developed a Chat History-Aware Retrieval System using **LangChain**, **Hugging Face Embeddings**, and **Chroma**. Integrated **RAG** and document retrieval for accurate responses, utilizing web scraping and dynamic chat history processing.
- **AI-Powered PDF Chat Assistant with RAG:** Developed a Conversational **Retrieval-Augmented Generation** system using **Streamlit** for PDF document uploads and chat history management. Integrated **Groq API** for LLM interactions, **Hugging Face embeddings** for semantic search, and **Chroma** for vector store management to facilitate real-time, context-driven information retrieval and interaction.

Programming Skills

- **Languages:** Python, SQL, Java, R-programming, CSS .
- **Technologies:** Pandas, NumPy, Scikit learn, Natural Language Processing, Docker, Data Analysis, Feature Engineering, Flask(RESTful API), HuggingFace, Groq.
- **Miscellaneous:** Detail-oriented, Mentoring, Teamwork, customer-focused, Engaging Presentation

Achievements

2023- Secured **5th, 11th, 33rd** Rank in Coding contests conducted by Smart Interviews at GRIET
2022- Secured **2nd** Position at a football tournament held at VNRVJIT
2023- Completed Supervised Machine Learning from Stanford DeepLearning AI.
2023- Capped off a BootCamp at IDS Inc on BlockChain HyperLedger
2023- Part of Research Apprenticeship at Centella Scientific
2024- Accomplished a Data Science Job Simulation at BRITISH AIRWAYS