

Zuhair Abdul Haleem

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EDUCATION

Florida Atlantic University

MS in Computer Science

Expected Graduation- Dec 2025

Boca Raton, Florida

Osmania University

Bachelor of Engineering in Computer Science

Sep. 2019 – Aug 2023

Hyderabad, India

EXPERIENCE

Software Engineering Fellow

Headstarter AI

July 2024 – Sep 2024

United States

- Led a team of **5** to develop and deliver multiple AI projects throughout the fellowship, applying advanced software engineering techniques to solve diverse problems.
- Gained valuable industry exposure through expert-led speaker sessions, providing insights into real-world applications and trends.
- Collaborated effectively within a team to apply software engineering methodologies, enhancing skills in project management, model development, and teamwork.

Machine Learning Intern

National Small Industries Cooperation(NSIC)

June 2023 – Aug 2023

Hyderabad, India

- Contributed to **2+** agri-tech and local language translation projects utilizing various AI & ML algorithms, such as neural networks and decision trees, improving model accuracy by **15%**.
- Worked with multiple datasets and frameworks like TensorFlow and Scikit-learn, boosting performance by **20%**
- Collaborated with senior professionals and assisted them in research in the field.

Vice President (AI Club- Undergrad)

Lords Institute of Engineering and Technology

May 2022 – Aug 2023

Hyderabad, India

- Organized AI workshops and hackathons, engaging **100+** students in machine learning and Data Science projects.
- Coordinated guest lectures with industry experts, offering insights into AI advancements and career opportunities.
- Led AI research initiatives, mentoring students on building projects like chatbots and image classification models.

PROJECTS

YouTube Video QA System using RAG | Hugging Face, Langchain, Pinecone, OpenRouter

Aug 2024 – Sep 2024

- Built a system to process YouTube video transcripts and apply **RAG** for question answering.
- Integrated Pinecone with Hugging Face for efficient embedding retrieval and used OpenRouter API to streamline access to multiple LLMs for generating context-aware answers.
- Achieved **87%** accuracy in generating answers with fast response times based on video content

NLP Sentence Similarity Score with BERT Clustering | Python, PyTorch, NumPy, BERT, SciPy

April 2024 – May 2024

- Developed an **NLP** tool to generate sentence embeddings using BERT and mean pooling.
- Applied **cosine similarity** to compute similarity scores between sentences.
- Implemented **hierarchical clustering** to group sentences based on semantic similarity.
- Enabled user input to compare sentence similarity with a **cosine similarity score** output.

Movie Recommender System | Python, Pandas, NLP, Machine Learning

Jan 2024 – Feb 2024

- Developed a **content-based recommender system** as part of the **Advanced Internet Systems** course, suggesting movies based on genres, keywords, and overviews.
- Conducted thorough **data cleaning** and preprocessing on the **TMDB 5000 Movies** and **Credits** datasets, merging and extracting key features.
- Applied **NLP techniques** to process movie overviews and used **Cosine Similarity** to measure movie similarity for recommendations.

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, HTML/CSS, Next.js

Developer Tools: Git, VS Code, PyCharm, Google Colab

Libraries: Pytorch, OpenCV, NumPy, Pandas, Hugging Face, Scikit

Databases: Pinecone, SQL, Firebase