

Zuhair Abdul Haleem

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EDUCATION

Florida Atlantic University

Master of Science 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 | Next.js, Pinecone, OpenrouterAPI, Firebase, Clerk

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.
- Coordinated effectively within a team to apply software engineering methodologies, enhancing skills in project management, model development, and teamwork.

Machine Learning Intern

National Small Industries Corporation(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.

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, Data Cleaning

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.
- Implemented NLP techniques to process movie overviews and used Cosine Similarity to measure movie similarity for recommendations.

LEADERSHIP

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 Data Science projects like chatbots and image classification models.

TECHNICAL SKILLS/ACTIVITIES

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

Libraries/Tools: Pytorch, OpenCV, NumPy, Pandas, Hugging Face, Scikit, Git, VS Code, PyCharm

Databases: Pinecone, SQL, Firebase

Athletics: Captain of college soccer team, Gold Medal(800m marathon-School)