

# Zuhair Abdul Haleem

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## EDUCATION

<b>Florida Atlantic University</b> <i>MS in Computer Science</i>	Dec 2023 – Dec 2025 Boca Raton, Florida
<b>Osmania University</b> <i>Bachelor of Engineering in Computer Science</i>	Sep. 2019 – Aug 2023 Hyderabad, India

## EXPERIENCE

<b>Digital Forensics Intern</b> <i>Cyber Secured India</i>	Feb 2024 – April 2024 Hyderabad, India
<ul style="list-style-type: none"><li>Used Burp Suite for web security testing and Android pentesting for mobile vulnerabilities.</li><li>Employed Nmap for network mapping and reconnaissance to identify security threats.</li><li>Collaborated effectively with team members to solve complex challenges and share knowledge.</li></ul>	
<b>Machine Learning Intern</b> <i>National Small Industries Cooperation( NSIC )</i>	June 2023 – Aug 2023 Hyderabad, India
<ul style="list-style-type: none"><li>Contributed to agritech and local language translation projects utilizing various AI &amp; ML algorithms, such as neural networks and decision trees.</li><li>Gained experience working with diverse datasets, frameworks, and libraries.</li><li>Collaborated with senior professionals and assisted them in research in the field.</li></ul>	
<b>Vice President (AI Club- Undergrad)</b> <i>Lords Institute of Engineering and Technology</i>	May 2022 – Aug 2023 Hyderabad, India
<ul style="list-style-type: none"><li>Organized AI workshops and hackathons, engaging 100+ students in machine learning and NLP projects.</li><li>Coordinated guest lectures with industry experts, offering insights into AI advancements and career opportunities.</li><li>Led AI research initiatives, mentoring students on building projects like chatbots and image classification models.</li></ul>	

## PROJECTS

<b>Youtube Video QA System using RAG/ Hugging Face, Langchain, Pinecone, OpenRouter</b>	Aug 2024 – Sep 2024
<ul style="list-style-type: none"><li>Developed an approach for detecting and categorizing darknet traffic using LSTM neural networks.</li><li>Utilized LSTM architecture to reduce dataset complexity and extract relevant features.</li><li>Improved detection accuracy by focusing on relevant features and reducing noise in the dataset</li></ul>	
<b>NLP Sentence Similarity Score with BERT Clustering/ Python, PyTorch, NumPy, BERT, SciPy</b>	Feb 2023 – May 2024
<ul style="list-style-type: none"><li>Developed an <b>NLP</b> tool to generate sentence embeddings using BERT and mean pooling.</li><li>Applied <b>cosine similarity</b> to compute similarity scores between sentences.</li><li>Implemented <b>hierarchical clustering</b> to group sentences based on semantic similarity.</li><li>Enabled user input to compare sentence similarity with a <b>cosine similarity score</b> output.</li></ul>	
<b>Movie Recommender System   Python, Pandas, NLP, Machine Learning</b>	Feb 2022 – Aug 2022
<ul style="list-style-type: none"><li>Developed a <b>content-based recommender system</b> as part of the <b>Advanced Internet Systems</b> course, suggesting movies based on genres, keywords, and overviews.</li><li>Conducted thorough <b>data cleaning</b> and preprocessing on the <b>TMDb 5000 Movies</b> and <b>Credits</b> datasets, merging and extracting key features.</li><li>Applied <b>NLP techniques</b> to process movie overviews and used <b>Cosine Similarity</b> to measure movie similarity for recommendations.</li></ul>	

## TECHNICAL SKILLS

**Languages:** Java, Python, SQL , JavaScript, HTML/CSS  
**Frameworks:** React.js, Next.js, Tailwind CSS  
**Developer Tools:** Git, VS Code, PyCharm, Google Collab  
**Libraries:** Pytorch, OpenCV, NumPy, Pandas, Hugging Face, Scikit  
**Databases :** Pinecone, SQL, Firebase