Mohammed Abdul Omer

software developer

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in https://www.linkedin.com/in/mohammad-abdul-omer/

Professional Summary

I am an aspiring Machine Learning and Generative AI Engineer with a strong foundation in neural networks, natural language processing (NLP), retrieval-augmented generation (RAG) systems, and AI-driven application development.

My passion lies in leveraging artificial intelligence to solve real-world challenges and create impactful, data-driven solutions. I have hands-on experience in building educational and productivity-focused AI tools, combining technical proficiency with creativity to enhance user experiences.

Eager to collaborate on innovative, research-oriented AI projects, I continuously expand my expertise in deep learning, generative modeling, and MLOps workflows. I thrive in dynamic, fast-paced environments that encourage experimentation, problem-solving, and life-

Work Experience

AI Research Intern
2025-03-05 - 2025-07-10

Techzone Academy for Training & Research • Hyderabad, India

Conducted applied research under the mentorship of senior AI researchers.

Developed AI-powered educational tools including a Doubt Tutor and PTE/GRE Mock Test applications.

Applied Machine Learning and Natural Language Processing to enhance user engagement and adaptability.

Collaborated on integrating AI modules into existing digital education platforms for improved accessibility.

Education

Bachelor of Engineering (B.E.) in Computer Science (CSM)

Lords Institute of Engineering and Technology • Hyderabad, India

GPA: 8.2

Projects

1. Hybrid Deep Neural Network for Automated Fake News Detection

Technologies: Python, TensorFlow, Keras, Scikit-learn, Pandas, NumPy

Developed a hybrid deep learning model combining Convolutional Neural Networks (CNNs) and Long Short-Term Memory (LSTM) architectures to

long learning in the field of AI and data science.

classify news articles as real or fake.

Integrated word embeddings and sequence modeling to improve contextual understanding.

Conducted preprocessing on large-scale text datasets using NLTK and TF-IDF.

Achieved high precision and recall scores in detecting misleading information.

Deployed model via a simple web interface for real-time content verification.

PulmoScan AI – Chest X-Ray Disease Detection

Technologies: Python, TensorFlow, OpenCV, Matplotlib, Flask

Built an AI-powered diagnostic system that analyzes chest X-ray images to detect early signs of pneumonia and tuberculosis.

Implemented CNN-based image classification models for medical image interpretation.

Preprocessed X-ray datasets using OpenCV for noise reduction and normalization.

Designed with low-resource settings in mind for affordable healthcare screening.

Evaluated model performance using ROC-AUC and F1-score metrics, achieving over 92% accuracy.

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