

Mir Asim Ali

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Education

Bachelor of Engineering, Computer Science — Osmania University

2021 – 2025 | Hyderabad | Relevant Courses: ML, NLP, Deep Learning

Training Program-Artificial Intelligence & Machine Learning — International Institute of Information Technology Hyderabad (IIITH)

Feb 2024 | Hyderabad | AIML Focused

Technical Skills

- **Programming:** Python, TensorFlow, PyTorch, OpenCV, Scikit-Learn, Java, C, C++, Javascript, HTML, CSS, SQL
- **ML & AI:** Deep Learning, Computer Vision, NLP.
- **Data Science:** Pandas, NumPy, Matplotlib, Data Preprocessing, Image processing
- **Tools & Frameworks:** Git, Jupyter Notebook, APIs, LangChain

Experience

Machine Learning (Tech Team)

Friday AI -Hyderabad

Aug 2025 – Present

- Researching methods to extend large language model (LLM) context windows efficiently using attention optimization and retrieval-augmented techniques.
- Exploring logarithmic scaling approaches to improve inference efficiency and reduce compute costs for long-context models.

Machine Learning (Tech Team)

CVIT Lab, IIIT-Hyderabad

Nov 2024 – Dec 2025

- Developed and integrated a script identification module for printed, handwritten documents in multilingual OCR pipelines, deployed via IIIT-H's public iLoch API platform
- Endpoint: `identify_script_asim_code_layout_postprocess`
- Worked on bilingual and multilingual script separation for Indic languages, using deep learning models (CNNs, ResNet based) trained on custom datasets.
- Participated in weekly research and engineering meetings, contributing to design, debugging, and deployment decisions.

AI/ML Intern

iHub-Data, IIIT-Hyderabad

Jan 2024 – July 2024

- Built and trained a custom YOLOv8 object detection model to identify and track owls in images/videos.
- Integrated and deployed ChatGPT API locally, enabling efficient conversational AI experimentation without cloud dependency.
- Worked with Hugging Face Transformers for fine-tuning and evaluation of pre-trained language models.
- Completed weekly hands-on assignments and research notebooks.

Projects

- **Language model for OCR post processing:** trained language model for ocr post processing using indic-BART as fundamental model and transformer architecture.
- **Script Separation (Indic Scripts) Printed and Handwritten documents:** Developed 13 bilingual and 12 multilingual machine learning models for word-level script separation in Indic printed documents as part of an OCR pipeline for Indic languages.
- **Promptly:** A lightweight Groq API chatbot enabling seamless LLM integration into custom websites with minimal setup.
- **ResQ-Bubble:** Full-stack disaster relief web app with chat, resource sharing, and agency management.
- **Emotion-Aware-KeyWord-Extraction-Model :** An explainable multi-task NLP system that detects emotions and their key drivers for use in mental health, social media, and conversational AI.
- **Owl Detection (YOLOv8):** Trained a YOLOv8 model to detect owls using a custom dataset. and more

Achievements & Extracurricular

- Amazon Web Services(AWS) Academy AI-ML Virtual Internship
- Microsoft Transact SQL Badge
- NVIDIA AI: Basics to GenAI Practice Certification
- Python Full Stack Developer Virtual Internship Completion
- Attended 10+ hackathons, driven by a strong enthusiasm for rapid prototyping, and creative problem-solving.
- AWS Academy Data Analytics