

Mahammad Ashad B

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 Mahammad Ashad |  Mr-Ashad | Puttur, Mangaluru, Karnataka

PROFILE

AI/ML Engineer with hands-on experience with **Machine Learning, NLP, LLMs**. Built real-world AI solutions including **fine tuning transformer models**. Passionate about creating scalable, impactful ML systems that bridge research and application.

EXPERIENCE

- **AI/ML Developer Intern** Remote, Chennai, India
Erytos Technologies 08-2025 - Present
 - Developed a machine learning-based **Tracking System and Fall Detection** using mmWave radar sensor data.
 - **Implemented methodologies from academic research papers** to build tested and validated systems.
 - Leveraged ML models such as **DBSCAN** and neural networks like **BiLSTM** for tracking and identification tasks.
- **AI/ML Engineer** India
Freelance 07-2025 - Present
 - Developed an Error log file (.rpt) processing agent that takes natural language instructions as input and uses LLM **qwen2.5-14b-1m** and built a **Retrieval-Augmented Generation (RAG)** pipeline for intelligent file processing.
 - Integrated **ChromaDB** as the vector store in RAG pipeline to index log files and provide context to LLM.
 - Built an **AI VLSI project agent** using **gpt-4o** LLM that can perform operations such as **summarization, comparison, and reasoning** using data fetched from **MongoDB**.
 - Designed a modular pipeline for **parsing, retrieval, and response generation**, improving maintainability and scalability.
 - These projects were developed for **Qualcomm** working closely with a Lead Engineer.
- **Machine Learning Intern** 06-2025 - 07-2025
IBT Aura Remote, Chennai, India
 - Developed a **transformer-based ML model(DistilBert)** to classify mental states for personal journal entries.
 - Fine-tuned and evaluated models using **PyTorch, F1-micro/macro** performance metrics.
 - Performed Data Preprocessing, Tokenization and Model evaluation.
- **AI/ML Intern** 05-2025 - 06-2025
Elevate Labs Bengaluru, India
 - Worked on a AI career counseling Chatbot using LLM(**Mistral-7b**), **langchain, langgraph and fastapi**
 - Developed machine learning models and used cross-validation to ensure robust performance on unseen data.
 - Conducted data preprocessing, including cleaning, feature extraction, and model evaluation.

PROJECTS

- **Intelligent CLI Assistant** 7-2025
Tools: [Phi-2, LoRA, PEFT, Transformers,LLM] [\[Colab Link\]](#)
 - Fine-tuned **Phi-2** using **LoRA** and **PEFT** on a dataset of CLI command-response pairs to assist users with terminal operations.
 - Integrated adapter weights for efficient inference and generated accurate command suggestions from natural language prompts.
 - Demonstrated parameter-efficient fine-tuning of large models for domain-specific instruction following.
- **Mental Health Analysis (Machine Learning Model)** 8-2024 - 9-2024
Tools: [BERT, DeepSpeed, Pytorch, NLP] [\[Kaggle Link\]](#)
 - Designed and implemented a **BERT-based** classification model for effectively assessing mental health.
 - Implemented **DeepSpeed** for **distributed training** achieving efficient training time.
 - Developed End to End **NLP Pipeline** using **Pytorch Dataset**, ensuring efficient data loading

EDUCATION

- **Yenepoya University (NAAC A+ Grade)** 2021 - 2024
Bachelors of Computer Application Mangaluru, India
 - CGPA: 8.25/10
- **St Philomena Pre-University College** 2019-2021
Pre-University Education(Physics, Chemistry, Mathematics, Computer Science) Puttur, India

SKILLS

- **Programming Languages:** Python, C++, Java
- **Machine Learning & Data Science:** LLM Integration,Transformers,Natural Language Processing(NLP), Hyperparameter Tuning, Langchain, Computer Vision, sklearn
- **DevOps & Control Systems:** Git, Firebase, Vercel, ChromaDB