Mahammad Ashad B

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

PROFILE

Machine Learning Developer with hands-on experience in **NLP, LLMs and computer vision**. Built real-world AI solutions including **RAG-based agents, and fine tunning transformer models**. Passionate about creating scalable, impactful ML systems that bridge research and application.

EXPERIENCE

- **AI/ML Developer**   *India*
  Freelance   07-2025 - Present
  ◦ Developed a error log file(.rpt) processing agent that takes natural language instructions as input and uses LLM and **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.
  ◦ Optimized the chunking process to handle large log files(millions of lines) to reduce processing time.
  ◦ Parsed and matched log errors, annotated operations with timestamps, and used vector-based retrieval to reduce LLM hallucinations.
  ◦ Designed modular architecture to easily extend support for new error types and log formats.

- **IBT Aura**   *06-2025 - 07-2025*
  Machine Learning Intern   Remote, Tamil Nadu, India
  ◦ Developed an end to end NLP pipeline using **transformer-based 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, Model evaluation, and optimization.

- **Elevate Labs**   *05-2025 - 06-2025*
  AI/ML Intern   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.

- **CodeLab Systems**   *10-2022 - 11-2022*
  Machine Learning Intern   Mangaluru, India
  ◦ Trained Machine Learning models by applying algorithms such as **Logistic Regression** & **K-Nearest Neighbors**
  ◦ Performed **data preprocessing** and label encoding to optimize dataset readiness and ensure effective training.
  ◦ Conducted data analysis using **Pandas** and **Matplotlib** to extract insights and visualize data.

PROJECTS

- **PrepAI – AI Interview Coach**   *8-2024 - 9-2024*
  Tools: [LLaMA3-70B, LangChain,Next.js, TypeScript]   [Deployment Link]
  ◦ Built an **LLM**-based app offering adaptive interview simulations, structured performance insights, and personalized AI interview guidance.
  ◦ Leveraged **LLaMA 3-70B** API with **LangChain** to generate context-aware questions, answers, and structured interview feedback.
  ◦ Developed Node.js API endpoints to validate inputs, interact with LLMs, and maintain contextual flow.

- **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.
  ◦ Created End to End **NLP** Pipeline using **Pytorch Dataset**, ensuring efficient data loading
  ◦ Implemented **hyperparameter tuning** to reduce training time by **40 percent**

EDUCATION

- **Yenepoya University (NAAC A+ Grade)**   *2021 - 2024*
  Bachelors of Computer Application   Mangaluru, India
  ◦ CGPA: 8.2/10

- **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 , sklearn
- **DevOps & Control Systems:** Git, Firebase, Vercel, ChromaDB