Rakib Hosen

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Experience

Associate AI team lead(March 2024 – Present)

Liberate Labs, Austin, Texas, USA (Remote)

- Led a multinational team of AI researchers and engineers, driving research and key feature development.
- Established and implemented coding standards to improve code quality and efficiency.
- Mentored junior engineers, enhancing their technical skills and overall performance.
- Collaborated with clients to gather requirements and implement solutions with the team.
- Developed AI-driven applications currently in production using cutting-edge AI agents.
- Deployed ML/AI production applications to cloud platforms like DigitalOcean.
- Leveraged state-of-the-art LLMs to build generative applications, bridging programmatic and generative systems.
- Created efficient asynchronous applications using Celery.
- Worked on Retrieval-Augmented Generation (RAG) applications with various databases like Chroma, MongoDB, PostgreSQL, and Qdrant.
- Built MVP (Minimum Viable Product) applications with FastAPI and Streamlit to showcase research and features.

AI Engineer(February 2023 – February 2024)

Liberate Labs, Austin, Texas, USA (Remote)

- Spearheaded data collection and organization for machine learning models using web scraping and APIs.
- Developed REST APIs using Django, defining endpoints and data formats.
- Researched and implemented AI technologies, focusing on deep learning and NLP.
- Collaborated with data scientists and engineers to integrate machine learning models into products.
- Presented research findings to stakeholders, including executives and product managers.
- Worked with ChatGPT API, NLTK, and spaCy to develop and implement NLP models.
- Created prototypes using Streamlit, LangChain, and OpenAI for AI-driven projects.

Open Source project Contributions:

- **Langchain:** Contributed by resolving a critical bug that was causing errors for Windows users, enhancing cross-platform compatibility.
- **Mesop:** Addressed a significant documentation issue that was misleading users regarding a component. Additionally, created an example to demonstrate the correct usage of the component, improving overall clarity and user experience.

Technical Skills

Programing Language: Python, C++, Java, PHP, Javascript

Database: SQLite, MySQL, PostgreSQL,MongoDB,Chromadb,

Web Framework: FASTAPI, StreamLit, django, Laravel

ML Libraries: TensorFlow, PyTorch, Scikit-learn, Keras, OpenCV

Agentic frameworks: Langchain, crewai, langfuse, LlamaIndex, Mixture of Agents

EDUCATION

International Islamic University Chittagong (2017-2022)

BSC in Computer Science & Engineering