

MD Waheed Pasha

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About Me

- Information Technology student with expertise in AI/ML development, proficient in Python, Java, and web technologies. Experienced in building practical applications using TensorFlow, reinforcement learning, and computer vision. Passionate about solving real-world problems through innovative technical solutions

Projects

Chess AI with Reinforcement Learning

github.com/Mohd Waheed

- Developed a reinforcement learning-based Chess AI using policy gradient methods, significantly improving decision-making during mid-game scenarios through self-play.
- Built a custom training pipeline with reward-based tuning and self-play loops, enabling continuous learning without external datasets.
- Tools used: Python, TensorFlow, OpenAI Gym (Chess), Reinforcement Learning.

YouTube Content Detection using AI

github.com/Mohd Waheed

- Built a Chrome extension to identify 18+ content on YouTube through multimodal analysis of audio, video, and metadata.
- Utilized Whisper for multilingual audio transcription, YOLO for visual detection, and Gemini for context-based content classification.
- Designed a Flask backend for AI inference, with real-time communication between the extension and server.
- Tools used: Python, Flask, JavaScript, Chrome Extension APIs, Whisper, YOLO, Google Gemini, HTML/CSS.

Fine-Tuning an LLM

github.com/Mohd Waheed

- Fine-tuned Meta's LLaMA 3.2 language model on structured SQL datasets using Unsloth with LoRA optimization, improving the model's ability to understand and generate SQL queries.
- Tools used: LLaMA 3.2, Unsloth, LoRA, Hugging Face Transformers, Google Colab (T4 GPU), PyTorch.

Vision-Language Image Search with LLM

github.com/Mohd Waheed

- Developed a web app using SmolVLM (LLM) via llama-server to generate image summaries and enable natural language image search.
- Tools used: Python (Flask), SmolVLM, LLaMA-compatible server, HTML/CSS/JavaScript.

Technologies

Programming Languages: Python, C, Java, HTML, CSS

Data Base: MySQL, MongoDB

ML/Deep Learning: TensorFlow, LLMs, GenAI

Hardware Platforms: Arduino

Tools: Git, Flutter

Operating Systems: Windows, Linux, macOS

Certifications

Object Oriented Programming using Python - Infosys Springboard (Mar 2025)

AI Foundations - HP LIFE (Apr 2025)

Machine learning with python - freeCodeCamp (May 2025)

Education

Anurag University ,Hyderabad | B.Tech in Information Technology

2023-2027