

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 using Reinforcement Learning

github.com/Mohd Waheed

- Implemented policy gradient methods to optimize decision-making, achieving noticeable improvement in mid-game evaluations
- Created training pipelines with self-play loops, ensuring consistent learning without external datasets
- Applied reward-based tuning to analyze behavior under varying board states and learning thresholds
- **Tools:** Python, TensorFlow, Reinforcement Learning algorithms, OpenAI Gym (Chess Environment)

YouTube Content Detection using AI

github.com/Mohd Waheed

- Developed a Chrome extension to detect 18+ content on YouTube using multimodal analysis of audio, video, and metadata
- Integrated Whisper AI for multilingual audio transcription and Gemini for content classification
- Employed YOLO for visual content detection and enforced a popup mechanism to warn users
- Implemented a Flask backend to handle AI inference with seamless extension-server communication

• **Tools:** Python, Flask, JavaScript, Chrome Extension APIs, Whisper AI, YOLO, Google Gemini, HTML/CSS

SQL GPT

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.
- Built and trained the model in a resource-constrained environment (Google Colab with T4 GPU), applying advanced memory-efficient techniques for low-cost, scalable experimentation.
- **Tools used:** LLaMA 3.2, Unsloth, LoRA, Hugging Face Transformers, Google Colab (T4 GPU), PyTorch.

Technologies

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

Data Base: MYSQL, MangoDB

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