Andrew A

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SKILLS

- **Languages**: Python, Java, C++,SQL
- **Frameworks**: Tensorflow, Langchain, Langgraph, Numpy, Sci-kit learn, FastAPI, Pandas, Matplotlib, Unsloth
- **Tools/Platforms**: Langsmith, Git, GitHub, MongoDB, Qdrant, Ollama, Docker, AWS, Github Actions, Postman, MLflow
- **Soft Skills**: Problem-Solving, Team Player, Project Management, Adaptability, Attention to Detail

PROJECTS

LLMTwin – Personalized AI Clone: |Github — Jan' 26 – Jan' 26

- Fine-tuned the **Llama 3.2 1B Instruct** model to mimic personal linguistic patterns, slang, and context using **Supervised Fine-Tuning (SFT)** on Google Colab's free T4 GPU
- Implemented Parameter-Efficient Fine-Tuning **(PEFT)** using **QLoRA** (Quantized Low-Rank Adaptation) and Unsloth, enabling training with **4-bit quantization** to maximize memory efficiency.
- Exported the final Model to **GGUF** format for local deployment via **Ollama** achieving low-latency inference on **Consumer hardware.**

Tech Stack: Python, PyTorch, Unsloth, Hugging Face (Transformers, PEFT, TRL), Llama 3.2, LoRA/QLoRA, Ollama,

OncoTracker – Brain Tumor Segmentation: | Github — Dec' 25 – Jan' 26

- Trained a **U-Net** with **~25m** parameters that segments **Necrotic(NCR), Peritumoral Edema(ED), Enhancing Tumor(ET)** using Kaggle's free 2 T4 GPUs for 12 hours.
- Tracked model's logs through **MLflow** to evaluate its performance and saved it to a central registry in **S3 bucket**.
- Created **Docker Image** of **FastAPI** service that loads the model and serves it in a endpoint, then deployed the image in **AWS Fargate**. Also created a simple interactive UI for visualizing the segmentation using **Gradio**
- Reduced response time of the service from **50s** to **16s** by removing **async** and **predict method** then directly **calling** the model.

Tech Stack: Python, TensorFlow, Git/GitHub, NumPy, Gradio, AWS Fargate, AWS EC2, MLflow, Docker.

AramAI - A legal chatbot: | Github — Sep' 25 - Oct' 25

- Built a **chatbot** that helps users understand their legal rights without needing prior legal knowledge.
- Designed an **AI agent** using a **RAG pipeline** backed by **Qdrant**, supported by data from verified legal sources and curated web content. Added tools for **RAG** retrieval, live search, and a legal index, and deployed the backend with **FastAPI** for smooth integration with **frontend** apps.
- Produced a reliable legal assistant that offers fact-based responses with **low hallucinations**, **fast retrieval**, and **consistent accuracy** for everyday legal queries.

Tech Stack: Python, FastAPI, Qdrant, LangChain, LangGraph, MongoDB, Git, LangSmith, NumPy, Scikit-learn.

TRAINING

W3 Grads: — Jun' 25 - Jul' 25

Full Stack with AI-Agents

- Completed a hands-on program focused on **Python/Django**, **REST API** development, and building **production-ready** fullstack systems.
- Developed AI-driven features using **agent-based architectures** for **workflow automation** and intelligent decision-making.
- Implemented AI model integration into Django apps, enabling **real-time inference**, **data processing**, and **end-to-end functionality deployment.**

CERTIFICATES

- Deep Learning Specialization by deeplearning.ai — Oct' 25
- Introduction To Machine Learning from NPTEL (Topper 1%) — Mar' 25
- Postman API Fundamentals Student Expert Certification — Nov' 25
- Tensorflow for Deep Learning Bootcamp by Andrei Neagoie and Daniel Bourke from Udemy — Dec' 24

ACHIEVEMENTS

- Ranked in the Top 3 nationwide in NPTEL's "Introduction to Machine Learning" course — Mar' 25
- Participated and ranked top 10 in intracollege hackathon INFERNOVERSE 2025. — Dec' 25

EDUCATION

Lovely Professional University — Phagwara, Punjab
Bachelor of Technology - Computer Science and Engineering; — *Aug' 2023–Aug' 2027*
CGPA: 9.54

Vellalar Vidyalayaa CBSE — Erode, Tamilnadu
12th Grade; ***Percentage: 90.8%*** — *Mar' 2022–Mar' 2023*

Mount Carmel International School — Erode, Tamilnadu
10th Grade; ***Percentage: 86.66%*** — *Mar' 2020–Mar' 2021*