ADITYA PANDHARE

Abu Dhabi, Dubai UAE ● +971564015933 ● adityapandhare44@gmail.com ● LinkedIn ● Personal Website

🎓 EDUCATION

Bachelors of Computer Science, New York University Abu Dhabi　　May 2025
- GPA: 3.92 - Summa Cum Laude　　Abu Dhabi, UAE
- Honours Student - Founders Award
- Relevant Courses: AI/Machine/Deep Learning, Software Engineering, Data Structures, Algorithms, OS, Networks

💼 EXPERIENCES

NYU Abu Dhabi - Interactive Media Department　　Sep 2024 – Dec 2024
Lab Assistant　　Abu Dhabi, UAE
- Supervised 50+ students and staff in Maya 3D modeling, 3D printing and laser cutting.
- Delivered 5+ tool training for fabrication, soldering, Unity VR applications, and general tool usage.
- Build an automated database for inventory management which improved consumer efficiency by 45%.

Aistra Labs Inc. - US. Based Global Firm　　Jun 2024 – Aug 2024
Generative AI - Backend SWE Intern, 🔗　　Dubai, UAE
- Developed 2 LLM-powered coaching tools (Individualized Educational Plan & Unit Planner) for teachers.
- Built additional features such as multilingual translation and download/upload across several formats.
- Conducted several PyTest unit tests to maintain proper functionality of the backend webpage.
- Reduced website loading and response times by 30% through abstraction and efficient codebase restructure.

3M Gulf Ltd.　　Jan 2019 – Jan 2019
Shadow Intern　　Dubai, UAE
- Analyzed and job shadowed 4+ different business departments and how they function.
- Conducted primary and secondary research and competitive analyses for their products.

📁 PROJECTS

Conversational AI Health Care Assistant 🔗　　May 2025
　Built a conversational healthcare AI agent web-app using UltraVox API to support users with medical queries.

Machine Translation Transformer　　Jan 2025 – Feb 2025
　Created a traditional transformer from scratch to train on machine translation from English to Italian.

MarkGDoc 🔗　　Aug 2024
　Developed a PyPi Python package for automatic file conversion of Markdown files to Google Docs files.

PersonaVerse 🔗　　Oct 2023 – Dec 2023
　Developed a Docker container web-app for conversing with LLMs personality chatbots using Langchain.

Elemental Mastery 🔗　　Oct 2023 – Dec 2023
　Designed an interactive Computer Vision ML5 hand tracking system to control self-built particle systems.

AuraVoice 🔗　　Oct 2023 – Nov 2023
　Developed a docker container web-app with a ML Deep CNN Model to convert voice to MIDI compositions.

🎖 CERTIFICATIONS

Natural Language Processing Specialization - Stanford University | DeepLearning.AI　　Apr 2025

Unsupervised & Reinforcement Machine Learning - Stanford University | DeepLearning.AI 🔗　　Apr 2024

Advanced Machine Learning - Stanford University | DeepLearning.AI 🔗　　Mar 2024

Supervised Machine Learning: Regression & Classification - Stanford University | DeepLearning.AI 🔗　　Feb 2024

🔬 RESEARCH

EEG-based Neuroadaptive System for Emotion Regulation using Deep Learning in Mixed Reality　　Sep 2024 – present
- Building an EEG-based emotion recognition system using PyTorch for emotion regulation.　　Abu Dhabi
- Achieved 79.2% accuracy of emotion recognition from our transformer-CNN model.
- Built an interface to connect to a 7 electrode wireless EEG device with our model and a Unity MR environment.
- Optimized 6+ hyperparameters for fine tuning or model accuracies.

🌐 VOLUNTEER

Jebel Ali Sanctuary, NYUAD Community Outreach　　Nov 2022
Planted 5000 mangrove trees, contributing to UAE's goal to plant 100 million mangroves by 2030.　　Abu Dhabi, UAE

Kevin Rohan Memorial Foundation　　Feb 2020
Helped to build the foundation of kindergarten schools, houses, and pools from the 2015 Nepal Earthquake.　　Kathmandu, Nepal

🧠 SKILLS

Python, C++, C, C# | **TensorFlow** | **PyTorch** | **CI/CD, SWE Pipeline** | **Databases** (MongoDB, MySQL) | **PyTest** |
LLMs (Langchain, OpenAI) | **Flask, FastAPI** | **AWS** | **Docker** | **Github** | **Web Development** (HTML, CSS, JS) |
Visual Studio Code | **Unity** | **Maya 3D** | **Jira, Confluence** | **Digital Ocean** | **PyPi** | **WebGL** | **Arduino** | **Google Suite**