ADITYA PANDHARE

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🎓 EDUCATION

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

💼 EXPERIENCES

New York University Abu Dhabi | Laboratory Assistant — Sep 2024 – Dec 2024, Abu Dhabi, UAE
- Trained and assisted 50+ students and staff in 3D modeling, printing, soldering and laser cutting.
- Built an automated database to track material usage, improving inventory management and delivery by ~**40%**.
- Provided hands-on guidance for physical computing and technical projects with debugging and prototypes.

Aistra Labs Inc. | GenAI Backend SWE Intern — Jun 2024 – Aug 2024, Dubai, UAE
- Developed two LLM-powered chatbots (Unit Planner, IEP Assistant) to cut teachers' workload by ~**20%.**
- Designed teacher-facing interfaces for curriculum, grades, and objectives to auto-generate tailored plans.
- Built multilingual support in 40+ languages via translation pipelines for LLM-generated content.
- Engineered document export features and authored MarkGDoc, cutting document creation time by 70%.
- Refactored backend systems to reduce code duplication and speed up prototyping with reusable modules.

New York University Abu Dhabi | Equipment Data Management Assistant — Jan 2023 – May 2023, Abu Dhabi, UAE
- Managed booking, tracking, and upkeep of 300+ film, audio, and media devices (cameras, mics, lighting, VR).
- Oversaw the inventory database end-to-end-monitoring, updating, adding items, and tracking repairs.
- Performed equipment fixes (soldering, rewiring, diagnostics) to minimize downtime and extend gear life.
- Streamlined check-in/out workflows and ensured gear readiness, improving turnaround and accountability.

3M Gulf Ltd. | Job Shadow Intern — Jan 2019 – Jan 2019, Dubai, UAE
- Observed cross-departmental workflows across Finance, Marketing, HR, and R&D.
- Conducted primary and secondary research on selected product lines and competitors in the Gulf region.
- Delivered presentations to department leads, showcasing competitive analyses and improvement strategies.

📁 PROJECTS

Seora: Corrective Multimodal RAG Agent — Aug 2025
Built an AI agent that acts as an assistant for CEOs and investors, analyzing startup decks and investability using corrective multimodal RAG — combining document analysis with real-time web search for reliable insights.

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.

School Creativity & PISA Scores: Data Science Research — Sep 2024 – Dec 2024
A cross-country correlation study linking school creativity resources to PISA outcomes (2015–2022), with analyses by GDP tier and COVID-lockdown exposure.

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, Abu Dhabi
- Building an EEG-based emotion recognition system using PyTorch for emotion regulation.
- 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.

💬 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