

Mohamed Amine Oulahyane

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Overview

Dedicated and motivated aspiring computer scientist with a focus on software development and artificial intelligence. Driven by a genuine enthusiasm for technology and excellence, I excel in collaborative settings, actively seeking leadership opportunities and valuing teamwork to achieve collective goals. Committed to making a positive social impact through ongoing projects, I bring adaptability, quick learning, and meaningful contributions to every endeavor. Ready to explore and innovate, I aim to push the boundaries of technology and collaboration.

Education

Citrus College

Feb 2023 — Present

Azusa, CA

- Associate Degree in Computer Science
- Expected Transfer Date: Fall 2025

Skills & Technologies:

- C++, C#, Python, JavaScript, HTML, CSS
- Flask, Node.js, Bootstrap, Unreal Engine, Hugging Face, Langchain (LangSmith), LLaMA 3.1, ChatGPT

Project Experience

FinAid: Personal Financial Assistant - AI-Powered Financial Management Platform

(Python, Next.js, Django, & GPT Technology)

- **Financial Data Analysis:** Leveraged AI to analyze and categorize bank statements, providing users with real-time insights into their spending habits.
- **Natural Language Processing (NLP):** Integrated advanced NLP models to enable users to query their financial data and receive personalized advice.
- **Responsive Web Design:** Developed a user-friendly interface using Next.js, ensuring seamless experience across devices.
- **AI-Driven Insights:** Employed LLMs and GPT to generate actionable financial insights, helping users optimize their budgeting and saving strategies.
- **Web Development:** Engineered both frontend and backend systems with Next.js and Django, enhancing the platform's performance and scalability.
- **User Experience Enhancement:** Conducted extensive testing and user feedback sessions to refine the platform's UX/UI, improving user engagement and satisfaction..

Pac-Man AI Video Game - Expertise in deep learning and reinforcement learning.

Jan 2024

(Python & TensorFlow)

- **CNNs & LSTMs:** Used CNNs for visual processing and LSTMs for strategic decision-making, enhancing AI efficiency.
- **A3C Algorithm:** Implemented A3C in the Gymnasium environment for robust and parallel training of AI agents.
- **Unity & TensorFlow Integration:** Combined Unity for game development with TensorFlow for neural network operations.
- **Performance Optimization:** Conducted extensive training and hyperparameter tuning for optimal AI performance.
- **AI Visualization:** Created real-time visualizations of AI decisions to showcase strategy and engagement.

Autonomous Car Racing Simulation - Real-Time Stock Monitoring & Analysis

Jul 2024

(Python & TensorFlow)

- **Convolutional Neural Networks (CNNs):** Employed CNNs for real-time image processing and path recognition.
- **Proximal Policy Optimization (PPO):** Utilized PPO for training the AI to navigate complex racing tracks efficiently.
- **Real-World Simulation:** Conducted extensive simulations to test AI performance in various racing scenarios and optimize driving strategies.
- **Team Collaboration:** Worked with a team to refine the AI's decision-making capabilities and enhance adaptability to dynamic environments.
- **Performance Optimization:** Engaged in iterative testing and hyperparameter tuning to achieve optimal AI performance.
- **Project Meetings:** Participated in regular meetings to discuss findings, progress, and continuous improvements.

Volunteer Experience

Volunteer Chatbot Developer

Feb 2024 — Present

Transformative Meditation App for Incarcerated Individuals

(Python, API Integration & LLMs)

- Deepened enthusiasm for social impact by improving access to volunteer opportunities.
- Designed and implemented the chatbot using Python, API integration, and Large Language Models (LLMs).
- Enabled users to find volunteer opportunities based on location and interest through natural language processing.
- Utilized LLMs to provide accurate, real-time information and enhance user interactions.
- Participated in regular project meetings to discuss progress and updates.
- Collaborated with a development team to enhance chatbot functionality and user experience.
- Utilized Git & GitHub for version control and Slack for project coordination.

Languages

- English - Proficient
- French - native speaker
- Arabic - native speaker
- Spanish - personal interest