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Utthkarsh Kottali

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EDUCATION

B.S. in Computer Science

University of Massachusetts Amherst

Expected Graduation: May 2024

Main courses: Software Development, Web Programming, Artificial Intelligence, Algorithms, Programming with Data Structures, Introduction to Computation, Computer Systems Principles

PROJECT

UMass Droplet

Feb 2023 - May 2023

- Developed an innovative mobile app enabling campus users to easily locate water bottle stations on a map and track their daily water intake.
- Leveraged PostgreSQL database and API calls for efficient data storage and retrieval, resulting in a user-friendly and sustainable solution.
- Collaborated with a team in Agile and Scrum methodologies to implement front-end and back-end functionalities.

MindScape

Feb 2023 - May 2023

- Created a mood tracking app with detailed emotion logging and personalized self-care resources.
- Developed front-end using HTML, CSS, and Bootstrap, backed by NodeJS server.
- Collaborated with a team to design and implement user-centric features.

Scrabble

Feb 2023 - May 2023

- Created a web-based Scrabble game applying HTML, CSS, JavaScript, front-end/back-end architecture, and RESTful API integration.
- Developed engaging UI, robust architecture, and seamless communication, achieving comprehensive web development skills.

PacMan Reinforcement Learning

March 2023

- Implemented value iteration and Q-learning algorithms for reinforcement learning to develop agents that make optimal decisions based on rewards and maximize performance in diverse environments.
- Tested agents in various scenarios, beginning with the Gridworld environment and finally extending to the classic game of Pacman.

Stock Market Prediction

Aug 2022

- Designed a machine learning model and developed a back-testing engine to predict SP 500 price movements.
- Utilized Python, yfinance, and scikit-learn libraries for prediction based on historical data.

Stock Price Data

May 2022

- Built a web scraping program to fetch real-time stock data from Yahoo Finance using Python.

SKILLS

Programming

Python, Java, Javascript, Node.JS, C, C++, CSS, HTML

Tools

Linux, Git

Languages

English (fluent), Telugu (fluent), Hindi (basic)

Other

Agile, Scrum, Object Oriented Programming