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Vikram Patil

EDUCATION

University of Massachusetts, Amherst Fall 2019 – May 2023

- B.Sc. Computer Science Exp. May 2023. GPA: 3.8
- Undergraduate Coursework: Databases; Algorithms; Programming Languages - JS, Java, C; Comp. Architecture; Database Management; Mobile Health sensing and Analytics; Calculus; Statistics.

EXPERIENCE

Software Development Intern   **Advaint**   **Summer 2021**

- Advaint is a startup building Computer Vision ML based IOT product in safety, security, and comfort residential market in India.
- My role, in a team of 3, was train ML models for identifying a child in a surveillance video stream.
- Model is used by the IOT platform to identify unaccompanied children in prohibited areas e.g., near swimming pool, electricity distribution areas etc. using Roboflow and made other models like member-guest detection etc with OpenCV, and TensorFlow.

TECHNICAL EXPERIENCE

Projects

- **Shopping Bot** (2021). Generated multifunctional Shopping Bot that can auto-buy to buy a product from a shopping website in seconds. The bot was implemented using Python and Selenium and buy products which are in high demand at best prices.
- **Emotion Analysis through Voice (Python, Numpy, MatplotLib)**(2021). Detected and analysed emotions in the voice using features like Intensity, MFCC, Peaks, Power Spectrum etc. Trained the data using N-fold cross validation and confusion matrix.
- **Image Processing Library (JavaScript)** (2021). Created a JavaScript Image Processing Library that works by manipulating individual pixel's RGB values. Implemented 10 different functionalities such as Blur, Pixelate, and Saturation etc.
- **Game Board (Python)** (2021). Created a connect 4 AI bot using the AI technique of minmax using the alpha beta pruning algorithm to recursively traverse the game tree and find value of states.

ADDITIONAL EXPERIENCE AND AWARDS

- **Peer Mentor(Present) :** Mentored Students by helping them with any guidance they required and advising them on courses to take based on their interests.
- **Dean's List (2019, 2020) :** Awarded for academic excellence in coursework.

Languages and Technologies

- Javascript (advanced); HTML5/CSS (intermediate); Java (advanced); C++ (intermediate); Node.js PSQL (intermediate); Adobe XD(advanced), React(intermediate), TensorFlow(intermediate);