Yashwanth Priya Thiruvarul

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Education

Amrita Vishwa Vidyapeetham, Coimbatore	**July 2024 — Present**
B.Tech in Computer Science and Engineering (Artificial Intelligence)	CGPA: 8.52
Sri Chaitanya Techno School, Coimbatore	**2021 — 2023**
Senior Secondary	Overall: 88.6%
Sri Sankara Vidyalaya, Karur	**2020 — 2021**
Secondary	Overall: 90.4%

Experience

Intel IoT Club - AIoT Wing Core Member　　　　　　　　**May 2024 — Present**
Amrita Vishwa Vidyapeetham

- Conducted workshops on ESP32 microcontroller and AIoT technologies.
- Assisted participants with IoT solutions using ESP32.
- Conducted the Edge Fusion Showdown

Class Representative　　　　　　　　**Jun 2023 — Sep 2024**
Amrita Vishwa Vidyapeetham

- Liaised between students and faculty, managing communication.

GDSC Member　　　　　　　　**Oct 2023 — Jun 2024**
Amrita Vishwa Vidyapeetham

- Completed GenAI Study Jams in 2023.
- Assisted in conducting and completed GenAI Study Jams in 2024.

Projects

Disease Spread Prediction | Python　　　　　　　　**Apr 2024- May 2024**

- Developed a model to predict the spread of COVID-19 using the Newton-Raphson method in combination with the SIRD (Susceptible, Infected, Recovered, and Deceased) model.
- The system analyzes various epidemiological parameters to simulate disease dynamics, aiding in understanding potential outbreak patterns.

Facial Recognition System | Java, OpenCV　　　　　　　　**Apr 2024-May 2024**

- Designed a comprehensive facial recognition system capable of real-time face detection, age, gender prediction, and expression recognition.
- Integrated deep learning models with OpenCV for live video feeds, analyzing human faces and counting detected faces for various applications in security and interaction.

Water Turbidity Sensor | Arduino IDE　　　　　　　　**Apr 2024-May 2024**

- Developed a cost-effective, Arduino-based water turbidity sensor that uses an optical sensor to measure water clarity in real-time.
- Displayed turbidity levels on a TFT screen, offering a low-cost solution for environmental monitoring and water quality assessment in treatment facilities.

Cat-Dog Classification App | Python, Docker, CNN, Flask　　　　　　　　**May 2024**

- Built a web application to classify images of cats and dogs using a pre-trained convolutional neural network (CNN) model.
- The application was deployed using Flask for the backend, and containerized using Docker for scalability, demonstrating a lightweight machine learning deployment.

2048 Game Recreation | Python　　　　　　　　**Nov 2023 — Dec 2023**

- Recreated the popular 2048 game in Python, implementing game mechanics like random tile generation and tile merging.
- The game uses a 4x4 grid where players combine tiles to reach 2048, with controls for moving tiles in different directions, offering a fun and interactive puzzle experience.

Technical Skills

- **Languages:** Python, C, Java, MATLAB, JavaScript, HTML, CSS
- **Libraries:** OpenCV, Docker
- **Embedded Systems:** Arduino Mega

Certifications

- MATLAB Onramp, MATLAB Fundamentals
- Machine Learning Onramp, Machine Learning with MATLAB
- NPTEL: Programming in Java