



Kontham Pavan

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PROFILE

A highly motivated full-stack developer with proven expertise in Python, Java, and React, delivering innovative, scalable, and high-impact software solutions with optimized performance. Known for strong problem-solving, communication, and teamwork skills, consistently driving excellence and innovation in execution.

EDUCATION

Bachelor of Technology - (Computer Science and Engineering) 2022 – present
Amrita Vishwa Vidyapeetham, Kerala. Score - 8.36 GPA

Alphores group of Institutions, Telangana 2019 – 2022
Class XII - (Intermediate MPC), Score - 88.6%
Class X - (Secondary School), Score - 10GPA

ACADEMIC PROJECTS

Image Captioning using BLIP Model - (Python, Deep Learning) 12/2024

- Implemented an image captioning system using the BLIP fine-tuned model from Hugging Face.
- Enabled real-time caption generation for uploaded images and live camera input.
- Optimized model inference for accurate and efficient text descriptions.

Work-Life Balance for Students - (Python, Machine Learning) 11/2024

- Generated a dataset to evaluate the impact of preprocessing in machine learning.
- Analyzed various student parameters to understand work-life balance factors.
- Achieved significant accuracy improvement after applying preprocessing techniques.

SELF INITIATED PROJECTS

Hand Gesture Recognition & Mouse Control - (Python, OpenCV, AI) 11/2024

- Implemented a hand gesture recognition system using an existing AI model.
- Developed a feature to control mouse movements using recognized hand gestures.
- Integrated OpenCV for real-time gesture tracking.

Face Recognition Attendance System - (Python, OpenCV, Mediapipe) 10/2024

- Developed an AI-powered attendance system using facial recognition for real-time authentication.
- Integrated OpenCV and Mediapipe for efficient face detection and recognition.
- Implemented CSV-based attendance logging with automated system notifications for successful check-ins.

INTERNSHIPS

Full Stack Developer Intern 10/2023 – 10/2023 | Remote
Infotrix

- Created a ChatSpace react application that lets users communicate in a given space.
- Users who logged in can send messages and other can see the messages in that space.
- Used Firebase to register and retrieve information about the user.

Software Engineering Intern

04/2023 – 05/2023 | Remote

Create@Amrita

- Part of the collaborative group project aimed at assisting visually impaired individuals
- Developed a object detection model using the TensorFlow Model Zoo. The model identifies various objects and obstacles, then provides alerts to visually impaired individuals regarding their presence.

INTERESTS

Coding and Developing Web Applications

Learning New Programming Languages

SKILLS

Languages & Frameworks

- Python, C, C++, Java, MYSQL, HTML, CSS, JavaScript, Bootstrap, Angular, Spring Boot, React JS.

Programming Tools

- Android Studio, MySQL Workbench, Firebase.

Relevant Courses

- Data Structures, Operating Systems, Computer Network(CN), Algorithm Development, Design and Analysis of Algorithms, Web Design, Database Management System, Machine Learning, Object Oriented Programming (OOPS), Full Stack Web Development, Large Language Models (LLM), Deep Learning (DL).

COMMUNITY OUTREACH PROGRAM

Safe Steps - Cyber Security Awareness Campaign

2024

- Led a large-scale cybersecurity awareness campaign at Amrita Vidyalayam, Pandalam, Kerala.
- Conducted interactive seminars and workshops for higher secondary students.
- Impacted 50+ students by enhancing their knowledge of cybersecurity threats and best practices.

WORKSHOPS

How to CSS

06/2023

- Participated in a bootcamp by CodeKaro, focusing on modern CSS techniques.
- Learned Flexbox, Grid, animations, and responsive web design best practices.
- Developed hands-on skills to create visually appealing and optimized web interfaces.

Amrita C++ Workshop

12/2022

- Gained hands-on experience in C++ programming fundamentals.
- Covered Object-Oriented Programming (OOP), data structures, and algorithm optimization.
- Strengthened problem-solving skills through real-world coding exercises.

ACHIVEMENT

TCS Codevita

12/2023

- Secured 213/444k+ participants in TCS CodeVita Season 11

LANGUAGES

- Telugu, English, Hindi to Read, write, Speak and Understand. Malayalam to speak and understand.