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Education

Amrita Vishwa Vidyapeetham B.Tech, Computer Science and Engineering. CGPA : 6.5 Amritapuri, Kerala. 2025

Aravinda Vidyamandiram Higher Secondary Education, Computer Science. CGPA : 9.5 Kottayam, Kerala. 2021

Publications

Accepted Paper - IEEE ICCCNT 2025 (IIT Indore)

AI-Powered Vision and Voice Navigation for the Visually Impaired: A Smart Indoor Guidance System.

Accepted and presented at **The 16th International IEEE Conference on Computing, Communication and Networking Technologies (ICCCNT)**, IIT Indore.

Projects

AI-Powered Vision and Voice Navigation for the Visually Impaired: A Smart Indoor Guidance System

Sep 2024 Jun 2025

Python, YOLO, MiDaS, gTTS, OpenCV

- Developed a Computer Vision-Based Voice-Assisted Indoor Navigation System to aid visually impaired individuals in real-time obstacle detection and guidance.
- Integrated the real-time object detection and depth estimation system using YOLOv8 and MiDaS to identify indoor obstacles.
- Integrated voice assistance via gTTS for seamless navigation guidance tailored to visually impaired users.
- Achieved 85 - 90% detection accuracy with low-latency audio feedback (200ms) ensuring timely and reliable assistance.

Online Book Rental System

Oct 2024

JavaScript, HTML, CSS, MongoDB Atlas

- Created a platform to connect book owners with potential readers for lending and renting books.
- Designed an intuitive interface for listing and renting books, fostering affordability and convenience.

Movie Success Prediction Using Machine Learning Models

Aug 2023

Python, Machine Learning, Scikit-Learn, Classification, Regression

- Analyzed box office trends using machine learning models like KNN, Decision Tree, SVR, and Linear Regression.
- Evaluated model performance across four diverse datasets to determine predictive accuracy.

Leadership

Unchain : Breaking addiction together

Kollam, Kerala. 2023

- Launched a school-based awareness campaign to combat substance abuse among teenagers.
- Collaborated with doctors and drug enforcement agencies to ensure effective program delivery.

AmritaBlockCamp - Vidyut2023

Technical Team Lead

Amritapuri, Kerala. 2023

- Led a technical team to resolve on-site issues and ensure smooth venue setup and equipment readiness, enhancing overall event experience.

Certifications

AWS APAC Solutions Architecture virtual experience program on Forage

Aug 2025

- Designed and simple and scalable hosting architecture based on Elastic Beanstalk for a client experiencing significant growth and slow response times.
- Described my proposed architecture in plain language ensuring my client understood how it works and how costs will be calculated for it.

Accenture Nordics Developer Job Simulation on Forage

Sept 2025

- Completed hands-on tasks in software architecture, security, programming, testing, and agile methodologies to simulate real-world developer work and deliver practical solutions.

Skills

Technical: Python, SQL, HTML, Git, Golang(currently studying)

Libraries/Tools: NumPy, Pandas, Matplotlib, Scikit-learn, OpenCV, seaborn

Frameworks: Django, PyTorch

Interests: Software Development, Web Development(Frontend), Machine Learning, Computer Vision