N R Niranjan

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Profile

Passionate programmer with hands on experience in multiple fields like web development, machine learning and embedded systems. A result-oriented team player with a unique blend of strategic planning, adaptability, and leadership skills. Constantly looking for opportunities to learn for adding more skills to my arsenal.

Education

2020 – present	**Bachelor of Technology in Computer Science,** *Amrita Vishwa Vidyapeetham, CGPA - 9.09*	Amritapuri, India
2020	**12th grade,** *Bharatiya Vidya Bhavans Vidya Mandir, AISSEE - 94.4%*	Thrissur, India
2018	**10th grade,** *Gurukulam Public School, AISSCE - 91.4%*	Thrissur, India

Projects

FOS ⧉
Intelligent Lighting System using OpenCV
Executed a solution to the existing problem of traditional light bulbs lacking the ability to adapt to varying conditions and being inefficient in consumption of energy. Developed a working prototype using a Raspberry Pi 4 with the help of open source libraries like OpenCV, Mediapipe for pose detection, TFLite for object detection and gpiozero for hardware control. Wrote and published a research paper regarding the idea and prototype. This working prototype detects what a person is doing and adjusts the brightness of the light accordingly, providing a user convenient and energy efficient alternative for the traditional light bulbs.

Trouver ⧉
Student Social Responsibility Project
Worked as a part of a 5 member team and developed a web application that tackles the problem of students and people near Amrita School of Engineering, Amritapuri being unaware of the medical facilities near them. This application integrates the use of Google Maps as well as EmailJS to help improve the users experience. This project helped me as a developer to enhance my skills in front end development and it also gave me an opportunity to work with firebase. Conducted multiple surveys and researched about the medical facilities near the college.

YourML ⧉
A Platform to create a dataset analysis and an ML model with zero coding experience
Developed a web application hosted on streamlit that can take in a dataset to produce a preliminary data analysis using pandas profiling. This web app further produces and compares different machine learning models of different algorithms. It then produces the best model among them to download as a pickle file for later use.

Machine Learning Model and Web App
Heart Disease Prediction ⧉
Implemented a machine learning model that reads significant amount information from patients to predict whether they have a heart disease or not. In order to make the machine learning model more accessible, it was imported and deployed using several libraries in python like streamlit and pickle.

Full Stack Web Application using Firebase
CookMate ⧉
Developed a platform to create and view recipes. It integrates the use of ReactJs for front end and Firebase for backend development.

An Interfacing Keypad using LPC2148, *Embedded Systems Project*
Programmed an Interfacing Keypad using Keil ARM7 LPC2148.
This project aimed to simulate a 4x4 keypad. It also helped me get an exposure to working with microcontrollers.

Hackathons

Code with Consequences ⧉   Amritapuri
Runner Up in a Web Development Hackathon at a National level Multifest
Led a 4 member group and won second place for a hackathon called "Code with Consequences". Developed a fully hosted digital art website called "Pixel Market", where a user can view and surf through different NFTs.

Skills

Languages   **Tech Stack**
C++, Python, Javascript, Java, HTML, CSS   ReactJS, NextJS, Firebase, Tailwind, Flask

Organizations

ACM Amritapuri Web Design ⧉
Worked as a part of a 6 member team to design the ACM website for Amrita School of Engineering, Amritapuri. Took on the responsibility to become a web mentor for ACM's Student Chapter.

Achievements and Publications

UDAAN, *Qualified to the semi-finals for UDAAN(pitch your start-up)*   NIT Calicut

FOS, *Published a research paper proposing an idea for an efficient lighting system*   ASE, Amritapuri

Volunteering

ICPC 2022 Amritapuri Volunteer
Worked as a volunteer for the Indian International Collegiate Programming Contest (ICPC) Regionals that was hosted in Amrita School of Engineering Amritapuri.

Interests

Technical   **Hobbies**
Web Development, OpenCV, Machine Learning   Travel, Football, Fitness

Languages

English | Malayalam | Hindi