Ajay Krishna Raveendar

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 ajaykrish244 ➤ Personal Portfolio Website

EDUCATION

Bachelor in Electrical and Electronics Engineering,   07/2018 – present | Coimbatore
PSG Institute of Technology and Applied Research
CGPA-8.6/10

INTERESTS

Image Processing, Signal Processing, Computer Vision, Artificial Intelligence, Cloud Computing and Embedded Systems.

PROFESSIONAL EXPERIENCE

Intern, *Soliton Technologies Pvt Ltd*   11/2021 – present | Coimbatore, India
- Created an automatic waveform generator that generates data sets of different waveform types. This was used to test the machine learning model.
- Worked on optimizing a machine learning model that analyzes waveforms and spots anomalous ones using kNN.

PROJECTS

Disease Detection in Banana Leaf using CNN
An automated system has been developed to classify the leaf spot of crops based on the morphological changes that are caused by the pathogens using image processing and deep learning. An efficiency of 88% was achieved.

FPGA Implementation of Neural Network based Controller for DC-DC Buck Converter
The stability of the output from the power electronic device is highly improved using Neural Network based controller. This controller is highly efficient, adaptable, and easy to design.

Design and Fabrication of an Electric All-Terrain Vehicle
Fabrication of electric car powered by Lithium-ion battery running on BLDC motor. The system also has additional circuitry for protection and indication.

Fitness Tracker using Arduino
This project involves counting the number of steps, monitoring the heart rate and amount of calories burnt, and sending data to the user through an app.

SKILLS

Programming Languages
Python, C, Java, MATLAB, SQL.

Tools
IntelliJ IDEA, Codeblocks, MySQL, Jupyter, ZelioSoft2, Keil µVision5, Arduino IDE, Visual Studio Code, Git, Multisim, LabVIEW, AWS.

Libraries
NumPy, Pandas, SciPy, Scikit-Learn, OpenCV, TensorFlow, Keras, Matplotlib.

ACADEMIC LEARNINGS

- IoT and Sensors
- Java Programming and Masterclass
- C Programming for Beginners-Master the C Language
- Python for Data Science and Machine Learning Bootcamp

LEADERSHIP AND VOLUNTEERING

Student Coordinator
1. Robotics Workshop using Fire Bird V ATMEGA2560 (Yuktaha 2020)
2. Event on Electric Cars (Yuktaha 2021)

Organizer
Problem Solving and Algorithm, Training Session, EEE Association

Department Representative
Coding Club