HIRAN ERANDA

COMPUTER ENGINEERING UNDERGRADUATE

An encouraged and dedicated individual passionate about machine learning, web development and software development. Seeking an opportunity to incorporate and improve my knowledge and skills by contributing to the growth of the company.

CONTACT

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🏠 Malwanegama, Talawa.

TECHNICAL STRENGTHS

Progamming Langueges

Java   python   JS

Database Management

SQL   mongoDB

Web Development

ReactJs   PHP   Express

Tailwind   NodeJs

Machine Learning

OpenCV   Scikit-learn

EDUCATION & ACHIEVEMENTS

oct 2018 - present

B.Sc. Engineering (Honors) - Reading
Department of Computer Engineering, University of Jaffna

- Current GPA – 3.25
- Participated in RealHack 3.0 (2021) organized by the IEEE Student Branch of the University of Kelaniya

RESEARCH PROJECT

- Obstacle identification using reflected Wi-Fi signals

  - Aim - To make a smart bicycle path infrastructure.
  - Use case - To be used to design a guidance system for automated bicycles.

- In this project, I'm required to make a machine learning modal that allows identifying whether there is an object or not on the bicycle pathway using WiFi signals.
- To test this theory, a prototype is being built using ESP-32 as modules.
- CSI data of collected data packets are to be fed into the machine learning modal to train it.

- In this project, I have used
  - ESP 32 module - As transceivers
  - Espressif - this library is used to easily collect CSI data of transferred data packets
  - Anaconda - To train the ML modal

INTERESTED FIELDS

- Software Engineering
- DevOps
- Machine learning

PERSONAL SKILLS

- Fast learner
- Team player
- Problem solver
- Flexible and adaptable
- Positive attitudes
- Good Communication skill

EXTRA CURRICULAR ACTIVITIES

- Founding member of "Unpraised" Music Society (2018 - present
- Hard Ball Cricket– E18 Batch University Of Jaffna

REFERENCES

Dr. A. Kaneswaran,
Head of the department,
Senior Lecturer,
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RELATED COURSEWORK

- **Academic calendar management system for faculty (July 2022 – August 2022)**
  - The project was to develop a new calendar management system to overcome the current system's flows.
  - In this project, we have used the following
    - Next JS - To develop the frontend side of the application
    - Tailwind CSS – To rapid development of the styling of the frontend
    - Git – To manage the project's code base
    - Ms power automate - To automate notifications
    - vercel - To deploy the application
  - https://github.com/IsuruAkalanka/academic_calendar

- **Ai-based targeted advertising system (July 2022 – August 2022)**
  - The project was to develop an intelligent agent. We built a targeted advertising system that uses Ai to predict the best ad to show based on the audience.
  - In this project, we have used the following
    - python - To develop the application
    - Git – To manage the project's code base
    - OpenCV - For image processing
    - Jupyter Notebook - to train the machine-learning model
  - https://github.com/hiranEranda/ai_base_targeted-adverticing_system

- **Seller review and price information system (Sept 2021 – Jan 2022)**
  - The system was used to show retail prices to consumers and collect complaints on sellers as a method to regulate retail prices during the covid crisis.
  - In this project, I have used the following
    - Reactjs - To develop the frontend side of the application
    - NodeJs, Express - To create the backend side of the application
    - phpMyAdmin - To manage the MySQL database
    - SQL - To query the database
    - Git – To manage the project's code base
  - https://github.com/hiranEranda/db-project-mern

OTHER PROJECTS

- **SOCIAL-MARKET NFT (Oct 2022 – present)**
  - This is a freelancing object based on Etherium Chain and the Marketplace of NFTs.
  - In this project, I have used the following
    - React JS - To develop the frontend side of the application
    - Solidity – To implement smart contracts for the NFTs and Marketplace
    - Moralis – To interact with the blockchain, manage the primary database and create the server
    - Remix IDE – To program solidity and create a smart contract
    - Git – To manage the project's code base
  - https://github.com/hiranEranda/social-market