Aadith Thillai Arasu

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Kaggle

EDUCATION

Kalasalingam University — Krishnankoil, Tamil Nadu
Masters of Computer Science and Engineering — *Aug. 2023 – May 2025*

Mepco Schlenk Engineering College — Virudhunagar, Tamil Nadu
Bachelor of Computer Science and Engineering — *Aug. 2019 – May 2023*

EXPERIENCE

Graduate Tutor — Sept 2023 – Aug 2024
Kalasalingam University — *Krishnankoil, Tamil Nadu*

- Tutored undergraduate students in cyber security, digital skills, and data structures and algorithms, enhancing their understanding and performance.
- Developed personalized lesson plans and study materials to meet individual learning needs.
- Assisted students with exam preparation, coursework, and effective study techniques.
- Collaborated with faculty to identify students needing additional support.

Smart India Hackathon Finalist: Assistive Learning for Disabled Users — July 2022
Mepco Schlenk Engineering College — *Virudhunagar, Tamil Nadu*

- Developed an accessible web application using speech recognition and eye-tracking technology to assist users with physical disabilities. Created an inclusive quiz application for users with cognitive disabilities to enhance their educational experience.
- Utilized React JS for front-end development, ensuring a responsive interface compliant with WCAG guidelines and integrated external APIs for eye movement navigation.
- Employed MongoDB for efficient data storage and retrieval of user profiles and application content.

PROJECTS

Distributed Deep Learning Services | *Tensorflow, Keras, PHP, Raspberry Pi, JavaScript* — July 2024 – Present

- Developed a distributed deep learning framework in a fog computing environment for research students, incorporating services for image classification and object detection with TensorFlow and Keras.
- Designed a responsive user interface using HTML, CSS, and JavaScript, while utilizing PHP and Apache for efficient back-end support.
- Employed Raspberry Pi 5 and implemented a master-slave architecture, enhancing computational efficiency and processing speed by 25%.
- Served over 100 research students, providing tools that improved project outcomes by 30% and reduced latency by 15% compared to traditional methods.

Product Store Application | *Full-Stack Development, Express.js, MongoDB Atlas, React.js* — Feb 2024 – Mar 2024

- Developed a full-stack e-commerce application enabling users to upload products, manage inventory, and perform CRUD (Create, Read, Update, Delete) operations.
- Implemented RESTful API using Express.js for backend services, facilitating data interactions and enhancing performance.
- Utilized MongoDB Atlas for scalable cloud-based database management, ensuring data persistence and reliability.
- Designed a responsive and dynamic user interface with React.js, improving user experience and engagement.
- Deployed the application on Render, optimizing performance and accessibility for end users.

SOFT SKILLS

Communication — Leadership — Collaboration — Problem-Solving — Adaptability — Critical Thinking — Attention to Detail

TECHNICAL SKILLS

Languages: Python, TypeScript, SQL (Postgres), NOSQL (MongoDB), JavaScript, HTML/CSS, Rust
Frameworks: React, Node.js, Next js, Tailwind CSS
Developer Tools: Git, Docker, Prisma (ORM), Insomnia, Supabase, VS Code,
Libraries: pandas, NumPy, Matplotlib, Keras, Tensorflow, Scikit-learn, express, Framer Motion, OpenCV, React Query