SAKUNA DEWANARAYANA

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ABOUT ME

Computer Science undergraduate specializing in AI, Machine Learning, and Deep Learning applications. Experienced in developing intelligent systems that integrate web technologies with data-driven models. Proficient in Python, TensorFlow, and cloud-based AI integration with a strong foundation in software engineering principles.

TECHNICAL SKILLS

AI & Machine Learning: TensorFlow, Keras, PyTorch, Scikit-learn, Deep Learning, Computer Vision, NLP, CNNs, RNNs, Transfer Learning

Web Development: React.js, Next.js, Node.js, Express.js, HTML5, CSS3, Tailwind CSS, REST APIs, GraphQL

Databases: MongoDB, PostgreSQL, MySQL, Firebase

Cloud & DevOps: AWS (EC2, S3), Google Cloud Platform, Docker, Kubernetes, CI/CD Pipelines, GitHub Actions

Tools & Platforms: Git, GitHub, Jira, Postman, VS Code, Jupyter Notebook, Google Colab

APIs & Integrations: OpenAI API, Voiceflow, ElevenLabs, Google Analytics, Stripe

Methodologies: Agile/Scrum, Test-Driven Development, Version Control, Model Deployment, MLOps

EXPERIENCE

Full-Stack Developer & AI Engineer - Intern   **Aug 2024 - Feb 2025**
Spiritual Life And Tourism (pvt) Ltd

- Architected and deployed 5+ AI-integrated web applications serving 500+ active users using React.js, Next.js, Node.js, and MongoDB
- Integrated ChatGPT API, Voiceflow, and Google Cloud for an AI-driven conversational chatbot.
- Implemented JWT authentication and SEO optimization for secure and efficient platforms.
- Contributed to both backend model integration and frontend UI/UX improvements

RESEARCH PROJECT

A Deep Learning Approach to Multimodal Emotion Recognition Integrating Facial Expression and Voice Analysis with Conversational AI Avatar

- Designed and trained deep learning models achieving 79% accuracy in facial emotion detection (FER-2013 dataset) and 93% accuracy in voice emotion recognition (TESS dataset) using CNN and 1D ConvNet architectures
- Developed a full-stack AI system integrating React.js, Three.js, Node.js, and OpenAI Whisper.
- Implemented multimodal fusion algorithm combining facial and voice features, improving overall emotion detection accuracy by 15% compared to single-modality approaches
- Technologies: TensorFlow, Python, React.js, Node.js, OpenAI APIs, ElevenLabs, Rhubarb Lip Sync.

PROJECTS

Light Wisdom (Inobbse) — AI-driven Spiritual and Mindfulness Platform

- Developed a React.js and Express.js based web app integrating ChatGPT API and Voiceflow for real-time guided meditation.
- Deployed using Google Cloud with responsive UI and SEO optimization.

Yorkshire College Website

- Designed and built an interactive educational website with HTML, CSS, and JavaScript.
- Integrated Google Analytics and implemented secure login using JWT authentication.

Portfolio Website — Next.js, TypeScript, Tailwind CSS

- Created personal portfolio site showcasing projects and AI integrations.
- Built CI/CD pipelines with GitHub Actions and Docker for automated deployment.

Worldwise WEB SITE

- Built a gems selling eCommerce website using Next.js, Node.js, and MongoDB.
- Integrated API-based news feed and backend CMS for dynamic updates.
- Optimized SEO, performance, and responsiveness for better user experience.

EDUCATION

University of Kelaniya, Sri Lanka
Bachelor of Science in Computer Science (GPA: 3.48 / 4.00)

2021 - 2025

EXTRA CURRICULAR

Rotaract Club, University of Kelaniya, Sri Lanka
Logistic Coordinator - 'Ludicon' Inter University E-sport Tournament

Leo Club, University of Kelaniya, Sri Lanka
Project Chair - 'Hasarella' Child Cancer Programme
Event Coordinator - 'Cyber Shield'

REFERENCES

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