Contact

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Portfolio
dilshansenarath.site

Linkedin
Dilshan Senarath

Education

2021 - 2024
BSc(Hons) Computer Science (Software Engineering)
University of Wolverhampton, UK
Graduated with First-Class Honors

2011 - 2020
Secondary School
Rajapaksa Central Collage - Weeraketiya

Certifications

SLIIT AI/ML Engineer - Stage 1 Certification

SLIIT AI/ML Engineer - Stage 2 Certification

Leadership and Extracurricular Activities

2023 - 2024
Worked as Student director of CINEC News latter Editorial panel.

2022 - 2023
Worked as assistant director of CINEC Students Media Circle.

2018-2019
Contributed as a super senior prefect at Rajapaksa Central College.

Language

Sinhala

English

Dilshan Senarath

I am a driven and ambitious software engineering student with a strong passion for the Information Technology field, particularly in Machine Learning. Highly motivated and committed to excellence, I am actively seeking a training or associate ML engineer role to apply and enhance my technical skills in real-world projects. My goal is to build a career as a Machine Learning engineer, contributing to innovative solutions through data-driven insights and cutting-edge technologies.

Projects

2024
Web base Virtual Garment Tailoring and Fitting System
- Built a virtual dressing room using K-Nearest Neighbors and Random Forest models.
- Developed a Flask backend with Three.js for interactive 3D visualization and user fit recommendations.
- Implemented a responsive frontend with HTML5, CSS3, and JavaScript.

2024
Tumor Classification Web Application
- Developed a full-stack ML web app for tumor classification using a TensorFlow model, a Flask backend, and SQL for efficient data management.
- Integrated real-time image processing via flask routes, showcasing expertise in backend development, database integration, and deploying production-ready ML systems.

2024
RAG Chatbot for Portfolio Website
- Developed a Retrieval-Augmented Generation (RAG) chatbot using LangChain and Mistral LLM, integrated with hybrid search techniques.
- Deployed the solution on a portfolio website, demonstrating advanced knowledge in NLP, deep learning, and scalable deployment.
- Integrated API-based search for dynamic content retrieval and real-time user interaction.

2022
Arduino Bluetooth Control Car
- Built a Bluetooth-controlled car using Arduino Mega, HC-05 Bluetooth module, and L298N motor driver.
- Programmed motion control features using Arduino programming language.

Skills

Technical Skills
- **Machine Learning/AI Frameworks:** TensorFlow, PyTorch, Keras, Scikit-learn
- **Deep Learning:** Neural Networks, CNNs, and RNNs
- **LLM:** Large Language Models, Fine-tuning, Prompt Engineering
- **LangChain:** LangChain Framework, Integration with LLMs
- **Web Development:** HTML, CSS, JavaScript, Flask, WordPress
- **Data Science Tools:** Pandas, NumPy, Matplotlib, Google Colab
- **Databases:**SQL
- **Other:** Arduino Development, SEO, Video Editing, Content creation

Soft Skills
- Leadership
- Team Collaboration

Reference

Poornika Sandamali

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