HIRULA ABESINGHA

AI/ML ENGINEER & FRONTEND DEVELOPER

CONTACT

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EDUCATION

2023 - Present
SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY (SLIIT)

- B.Sc. (Hons) in Artificial Intelligence

SKILLS

- **Languages**: Python, Java, JavaScript, HTML, CSS
- **ML/AI Frameworks**: TensorFlow, PyTorch, scikit-learn, Keras, OpenCV, NLTK
- **Data Tools**: Pandas, NumPy, Matplotlib, Jupyter
- **Frontend**: React, Tailwind CSS, Bootstrap
- **Backend**: Spring Boot, Node.js
- **Databases**: MySQL, MongoDB
- **Design Tools**: Figma, Adobe XD, Photoshop, Illustrator, Premiere Pro

PROFILE

AI/ML enthusiast specializing in machine learning, deep learning, and neural network architectures, with hands-on experience in model training, optimization, and deployment. Skilled in building AI-powered applications and applying data-driven approaches to solve real-world problems. Strong foundation in frontend development and graphic/UI design, enabling the creation of intelligent systems with seamless user experiences.

CORE COMPETENCIES

- Artificial Intelligence & Machine Learning: Model training, evaluation, and optimization
- Deep Learning Architectures: CNNs, RNNs, Transformers, GANs
- Data Science & Analytics: Preprocessing, visualization, feature engineering
- Model Deployment: Integrating models into web applications & APIs
- Frontend Development: Responsive, interactive UI/UX design
- Graphic/UI Design: Prototyping, branding, and user-centered design

PROJECTS & EXPERIENCE

Diabetic Retinopathy Preprocessing & Detection (**GitHub**)

- Built preprocessing pipelines for medical images.
- Experimented with CNN architectures for classification.
- Applied data augmentation and optimization techniques for accuracy improvements.

Car Detection & Tracking System (**Personal Project**)

- Implemented YOLOv8 for vehicle detection.
- Designed a tracking module to estimate relative speed (faster/slower).
- Applied visualization with distinct colors for speed-based categorization.

Frontend Development Projects

- Built responsive, modern websites with React & Tailwind CSS.
- Integrated backend APIs and optimized UI performance.

Design & Branding Work

- Created logos, posters, and UI/UX mockups for academic and freelance projects.
- Designed wireframes and prototypes with Figma and Adobe XD.

CURRENTLY LEARNING

- Advanced Deep Learning (Transformers, Diffusion Models, GANs)
- Computer Vision (object detection, image segmentation)
- Natural Language Processing (text classification, embeddings, LLMs)
- Cloud & MLOps (AWS, Azure, Docker, CI/CD pipelines)
- Advanced UI/UX design for intelligent systems