



HIRULA ABESINGHA

AI/ML ENGINEER & FRONTEND DEVELOPER

CONTACT

- +94 76 175 2211
- hirulapinibinda01@gmail.com
- Kandana, Sri Lanka
- <https://shorturl.at/Gzbkh>
- <https://github.com/HirulaAbesingha>

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