

HIRULA ABESINGHA

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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.

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, Next.js, Tailwind CSS, Bootstrap
- Backend: Spring Boot, Node.js
- Databases: MySQL, MongoDB
- Design Tools: Figma, Framer, Adobe XD, Photoshop, Illustrator, Premiere Pro, AfterEffects, Canva, Blender

Education

- B.Sc. (Hons) in Artificial Intelligence** 2024- Present
Sri Lanka Institute of Information Technology (SLIIT)
- G.C.E. Advanced Level – Physical Science Stream** 2022/24
Galahitiyawa Central College, Ganemulla
- G.C.E. Ordinary Level** 2020/21
OKI International School, Kandana

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 Detection (GitHub)**
 - Built preprocessing pipelines for medical images.
 - Experimented with CNN architectures for classification.
 - Applied data augmentation and optimization techniques for accuracy improvements.
- Prompto (GitHub)**
 - Developed a lightweight command-line reference tool for developers.
 - Provides instant access to Git, NPM, Docker, Python, and other essential commands directly in the terminal.
 - Built with Node.js and designed for speed, simplicity, and offline functionality.
 - Emphasized cross-platform compatibility and zero-dependency architecture for seamless developer productivity.
- Statistica (GitHub)**
 - Designed and implemented a domain-specific programming language for statistical analysis and reporting.
 - Integrated statistical modeling, hypothesis testing, and visualization using Pandas, SciPy, and StatsModels.
 - Focused on human-readable result interpretation to make statistical insights more transparent and accessible.
- 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