

Yasiru Lansakara

Computer Science & AI Undergraduate

PROFESSIONAL SUMMARY

Motivated Computer Science undergraduate specializing in Artificial Intelligence at NIBM, seeking an internship to apply my technical skills in real-world software and AI-driven projects. Passionate about using modern technologies to solve practical problems and committed to continuous learning and professional growth.

ACADEMIC PROJECTS

AI-based Medical Assistant

– Ongoing

- Developed an AI chatbot that reads handwritten doctor prescriptions using OCR and NLP.
- Integrated an AI model to recognize medicine names and provide health-related suggestions.

Urbanization Analysis

– Kurunegala District

- Performed image preprocessing using satellite images.
- Applied ML techniques to detect urban development patterns.
- Built clear visualizations and a detailed analytical report.

Deforestation Detection

– Matale District

- Processed satellite images and geospatial data using Python and OpenCV.
- Handled large image datasets (150GB+) for preprocessing.
- Identified deforestation regions using clustering and thresholding algorithms.
- Visualized results using heatmaps and charts.

Fruit Segmentation

– K-Means Clustering

- Implemented K-Means clustering for fruit image segmentation.
- Applied image preprocessing and color space conversion for improved accuracy.
- Segmented fruit regions by clustering pixel values.
- Evaluated segmentation results using visual analysis.

Heart Disease Prediction Model

– UCI Machine Learning Repository

- Compared the performance of Logistic Regression, Random Forest, SVM, XGBoost, and other models.
- Generated performance metrics such as ROC AUC and classification reports.
- Documented all findings clearly and systematically.

EDUCATION

HND in Computer Science with Artificial Intelligence

2025 – 2026

National Institute of Business Management

Diploma in Computer Science with Artificial Intelligence (GPA – 3.98/4.0)

2024 – 2025

National Institute of Business Management

G.C.E. Advanced Level – Physical Science

2022

Wayamba Royal College Kurunegala

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, JavaScript

Data Analysis: Scikit-learn, Pandas, NumPy, OpenCV, Matplotlib, Feature Engineering

Web Development: HTML, JavaScript, CSS

Database Management: MySQL, Firebase, MongoDB

Tools & Platforms: GitHub, VS Code, Jupyter Notebook, Git

Other: OOP, Agile Concepts, Model Evaluation

SOFT SKILLS

Problem Solving, Team Collaboration, Time Management, Continuous Learning, Communication Skills

CERTIFICATION

Python for Beginners

University of Moratuwa

Web Design for Beginners

University of Moratuwa

Machine Learning Online Course

Udemy

Mastering Azure: Elevate Your Cloud Expertise

Microsoft Student Ambassadors – Imagine Cup

LANGUAGES

English (Intermediate), Sinhala (Fluent)

LINKS

GitHub: <https://github.com/YasiruChamithLansakara>

LinkedIn: <https://www.linkedin.com/in/yasiru-chamith-lansakara>

Portfolio: <https://yasaruchamithlansakara.github.io/Portfolio>