

E.D. PANKAJA YUNIDU

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PROFESSIONAL PROFILE

Data Science undergraduate at SLIIT with hands-on experience in ML model development, data pipelines, and full-stack engineering. Proficient in end-to-end model development using Python, SQL, and scikit-learn, covering EDA, feature engineering, and deployment. Seeking a data science or ML engineering internship to drive data-driven solutions at a **dynamic Sri Lankan enterprise**.

EDUCATION

Sri Lanka Institute of Information Technology (SLIIT)	2024 – 2028
Bachelor of Science Honours in Information Technology — Specialized in Data Science (Reading)	
Nalanda Boys' Central College, Minuwangoda	
G.C.E. Advanced Level — Mathematics Stream 2023	
G.C.E. Ordinary Level 2020	

CERTIFICATIONS

Data Analytics Essential Certificate Course — Cisco	June 2026
Introduction to Data Science Certificate Course — Cisco	June 2026
Data Visualization — Kaggle	June 2026
UI/UX with Freelancing Certificate Course — ITGuru Global	Nov 2024 – Feb 2025
Assured Diploma in IT (DITEC)- Esoft Metro Campus	Nov 2021

EXTRACURRICULAR ACTIVITIES

Volunteering — Member, LEO Club of SLIIT	2025 – Present
Volunteering — Editor & Event Coordinator, Voice of Nalanda (Non-Profit Organization)	2024 – Present
Deputy Head Prefect — Nalanda Boys' Central College, Minuwangoda	2022 – 2023
Treasurer — Sea Scouts Rover Crew, Nalanda Boys' Central College, Minuwangoda	2022 – 2023

SKILLS

Technical Skills

Data Science & ML: Supervised/Unsupervised Learning, Classification, Regression, EDA, Feature Engineering, Data Preprocessing, NumPy, Pandas, SciPy, Scikit-learn, XGBoost, CNN (ResNet), Generative AI

Data Visualization: Matplotlib, Seaborn, Plotly, Recharts, Power BI

Databases & Data Management: MySQL, Microsoft SQL Server, MongoDB (NoSQL), PostgreSQL (Neon)

Programming & Web: Python, Java, JavaScript, R, C, HTML5, CSS3

Frameworks & Tech Stacks: Java Spring Boot, MERN Stack (MongoDB, Express.js, React, Node.js), React Native

Software Engineering Fundamentals : Data Structures & Algorithms, OOP, Design Patterns

Tools: Figma, Git/GitHub, Jupyter Notebook, Google Colab, Kaggle Notebook

Cloud & Infrastructure: Railway, Render, Vercel, Cloudinary, Expo EAS

Soft Skills

Leadership & Project Management | Communication & Collaboration | Problem Solving & Discipline

PROJECTS

APEXRATE: Intelligent Sri Lankan Exchange Rate Comparison & Forecasting Platform - June 2026 (Personal Project)
React 18 (TypeScript), Tailwind CSS, Recharts, Spring Boot (Java), FastAPI, PostgreSQL (Neon), XGBoost, ExchangeRate-API

- Developed a full-stack exchange rate analytics platform aggregating real-time rates from major Sri Lankan banks.
- Designed interactive dashboards for currency conversion, historical trend analysis, and financial data visualization using React and Recharts.
- Engineered an XGBoost forecasting model achieving **44.6% MAE reduction** over baseline, trained on **1,652+** historical USD/LKR records.
- Deployed an automated rate comparison algorithm to surface best Buy/Sell currency rates, enabling data-driven financial decision-making.

GOVICONNECT: Smart Agriculture Platform & AI-Based Disease Diagnostic System [Jan 2026 – May 2026]

(Group Project)

Java (Spring Boot), Python (FastAPI), RESTful APIs, CNN (ResNet), MySQL, Gemini API

- Built a ResNet CNN classifier for paddy leaf disease detection across **4 classes**, achieving **~92% training accuracy**, **~90% validation accuracy**, and avg. **F1-score of 0.91** on a balanced dataset of **10,000+** images.
- Architected a 2-service Spring Boot + FastAPI microservices backend with RESTful APIs and MySQL data pipelines for secure data processing.
- Engineered "Govi Mart", a D2C e-commerce marketplace with a smart advisory engine serving location-specific crop recommendations across **40+ crop types**.
- Integrated **Gemini API (LLM)** to automate community forum support, delivering context-aware crop advisory to farmers in real-time.
- Delivered an admin dashboard featuring real-time agricultural news feeds, a yield tracker, and system reporting tools.

Mobile App - [React Native, Node.js, MongoDB, Cloudinary, JWT, Expo EAS, Railway]

- Architected and deployed a Node.js/Express.js REST API featuring JWT auth, 3-role RBAC middleware, Cloudinary-based media storage, and **production Android pipelines via Railway and Expo EAS**.

SMILECARE: Web-Based Dental Management System - Jul 2025 – Dec 2025

(Group Project)

Java (Spring Boot), RESTful APIs, Microsoft SQL Server, HTML, CSS, JavaScript

- Digitized clinic workflows across **5 modules** (appointments, X-ray, inventory, patient profiles, admin dashboard) using Java Spring Boot, eliminating manual paper-based processes.
- Secured the application with RBAC across **4 user roles** (admin, staff, patient, Doctor) with bcrypt-hashed passwords and role-scoped API access.

AIML Project : Loan Prediction System - Jul 2025 – Dec 2025

(Group Project)

Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Jupyter Notebook

- Trained a binary loan approval classifier comparing **6 ML algorithms**; Random Forest achieved best performance (**91.05% accuracy, F1: 0.910**) with stratified 5-fold CV, outperforming Logistic Regression, SVM, KNN, Decision Tree, and MLP.
- Performed EDA using correlation heatmaps, ROC curves, and distribution analysis to surface data imbalances and inform feature selection.
- Applied full preprocessing pipeline: missing value handling, encoding, normalization, and resampling. to prepare clean, model-ready data.

Second-Hand Car Marketplace | Java Servlet Development - Jan 2025 – Jul 2025

(Group Project)

Java Servlet, GlassFish Server, File-Based Data Management, OOP, HTML, CSS

- Engineered an OOP vehicle marketplace supporting multi-role auth, dynamic listings, and transaction management across **3 user types**.
- Optimized listing queries using a custom Merge Sort on linked list structures, reducing sort complexity to **O(n log n)**.

REFERENCES

Pathum Harshana

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