

THEEKSHANA RATHNAYAKE

DATA SCIENCE UNDERGRADUATE

Phone: +9470 422 5884

Email: theeksh99@gmail.com

LinkedIn: linkedin.com/in/theekshana-rathnayake-6a53802b5

Location: Kandy, Sri Lanka

Github: github.com/TheekshR

SUMMARY

Passionate Data Science undergraduate with a strong foundation in full-stack development using the **MERN stack**, alongside proficiency in **Java**, **JavaScript** and **Python**. Deeply interested in building user-friendly, visually appealing interfaces through **UI/UX design**, while also exploring the power of data to drive intelligent solutions. Eager to apply both creative and analytical skills to develop impactful, end-to-end digital experiences.

PROFESSIONAL EXPERIENCE

UI/UX Designer - Part Time, Dynamic Biz Nov 2024 - Present

- Contributed to frontend development and content integration as part of a team building web applications using **WordPress**.
- Created interactive **UI designs** and **wireframes** in **Figma**, applying core **UI/UX principles** to improve usability and design consistency across web projects.

Graphic Designer - Part Time, Freelance Jun 2023 - Present

- Designed social media flyers and banners for advanced level tutors.
- Designed social media flyers for musical events.

EDUCATION

BSc(Hons) in Information Technology Specializing in Data Science May 2023 - Present

Sri Lanka Institute of Information Technology (SLIIT)

- Third Year Undergraduate

G.C.E Advance Level 2020 Jun 2018 - Jul 2020

Ranabima Royal College Kandy

- Physical Science Stream

SKILLS

Languages: C | C++ | Java | JavaScript | Python | SQL | PHP | Kotlin | HTML | CSS

Full Stack Development: React.js | Node.js | MongoDB | Firebase Firestore | MaterialUI

Mobile Application Development: Android Studio

Databases: MongoDB | Firebase Firestore | MySQL | RoomDB

UI Designing & Wireframing: Figma

CERTIFICATES

- Big Data 101 by IBM SkillsBuild May 2025
- Data Science 101 by IBM SkillsBuild May 2025
- Python for beginners by University of Moratuwa May 2025

PROJECTS

FutureWatt - Sustainable Energy Management System - 2nd Year 2nd Semester Group Project

React.js, MaterialUI, Node.js, MongoDB, Stripe

- Developed a web app for a solar energy solutions provider to streamline sales operations, manage customer and employee data, and handle orders and repair requests.
- Built different dashboards for sales managers, payment managers, technicians and admins to improve the efficiency and effectiveness of the company.
- Implemented a income and salary calculation and displaying system, and pdf generation for invoices and reports.

StatTrack - Personal Finance Management Android application

Android Studio, Kotlin, XML, RoomDB

- Designed and developed a personal finance tracking Android application manage income, expenses, and goal tracking with dynamic charts and tables.
- Implemented Room Database for persistent local data storage and retrieval, enabling real-time updates to financial summaries and visual analytics.

TuneDeck - Virtual Piano Web Application

React.js, ToneJS, Firebase Firestore

- Developed an interactive virtual piano web app using React and ToneJS, supporting real-time keyboard input and customizable synth settings.
- Implemented features including note recording/playback, octave shifting, track saving to Firestore, and a music player interface with play/pause/next controls and volume bar.
- Designed a responsive UI with logo branding, track management, and a planned mixer panel to enhance user experience and audio control.

Predictive Analytics System in HealthCare

Python, Streamlit

- Developed a machine learning model to predict patient mortality rate, recovery rate, healthcare access and hospital beds per 1000 using advanced models such as Random Forest, XGBoost, and Gradient Boosting, improving prediction accuracy through data preprocessing and feature engineering.

Diet Plan Generator

React.js, CSS, FastAPI

- Built a full-stack Diet Plan Generator using React and FastAPI.
- Implemented calorie calculations and rule-based personalized meal planning.
- Added PDF export and responsive UI with API integrations.

Fresh Mart - Online Stock Management System - 2nd Year 1st Semester Group Project

HTML, CSS, JavaScript, Java

- Developed a stock management system for Fresh Mart grocery using HTML, CSS, JavaScript, and Java (backend), enabling efficient inventory and sales management.
- Designed and implemented role-based dashboards for inventory managers, warehouse staff, salespersons, and admins to streamline operations and access control.

Portfolio(Ongoing)

React.js, CSS, Spline

- Implemented a portfolio website for myself using React, CSS.
- Created 3D models using Spline and design web animations using GSAP.

ADDITIONAL INFORMATION

- **Languages:** English, Sinhala.
- **Leadership:** Worked as the leader of the two university projects.
 - 2nd year 1st semester group project
 - 2nd year 2nd semester group project
- **Communication Skills**
- **Problem Solving Skills**