

THEEKSHANA DILSARA SUGATHNATH



Data Science Undergraduate

Education

BSc (Hons) in Information Technology – SLIIT(Sri Lanka Institute Of Information Technology)

Data Science Undergraduate (Ongoing)-3.45(Current GPA)

G.C.E A/L

Maths Stream -Dharmaraja Collage,Kandy

G.C.E O/L

Sri Chandananda Buddhist Collage,Kandy

Technical Skills

- Programming Languages: Java, Python, JavaScript, SQL, HTML5, CSS3
- Web Technologies: JSP & Servlets, JDBC, Bootstrap, Tailwind CSS
- Frameworks/Libraries: React.js, Next.js (basic to intermediate)
- Databases: MySQL, SQL Server, Database Design & Normalization
- Architecture & Concepts: MVC Architecture, OOP, REST API Basic
- Mobile App Development: Kotlin, XML
- Data Science & Analytics: Power BI, Pandas, NumPy, Data Cleaning, Data Visualization,
- Automotive Electronics & Diagnostics: iProg usage, EEPROM Reading/Writing, ECU Reading Basics (Automotive ECUs), Microcontroller Data Handling



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<https://github.com/TheekshanaDilsara>
Portfolio <https://theekshanadilsara.vercel.app/>

Profile

Aspiring IT professional with a strong interest in integrating IT solutions into efficient data handling processes. Skilled in software development and database management, with a commitment to applying technical expertise to real-world challenges while continuously learning and advancing in the field.

Academic Projects

• AURA-Online Shopping Platform

-Developed AURA, an online web based shopping platform built as a group project, focusing on the homepage and user account management modules. Responsibilities included designing an interactive and responsive homepage, implementing user registration and login functionality, and managing account profile features. The platform was developed using HTML, CSS, and PHP in Visual Studio Code, strengthening skills in full-stack web development, UI design, and server-side programming.

• CatchMe-Online Bus Ticket Reservation System

-Contributed to CatchMe, an online web-based bus ticket reservation system developed as a group project. Worked on key modules including user registration, passenger account management, and informative pages such as About Us. Focused on building secure and efficient user functionality using Java, JSP/Servlets, and MVC architecture within Eclipse IDE. This project enhanced skills in backend development, form validation, session handling, and creating structured, user-friendly web interfaces.

Software Engineering Skills

- Requirements Gathering & Analysis
- Debugging & Code Optimization
- Agile & Scrum Fundamentals
- Documentation Writing (SRS, Design Docs)

Tools & Platforms

- Development Tools: VS Code, IntelliJ IDEA, Eclipse, NetBeans
- Database Tools: MySQL Workbench, phpMyAdmin, pgAdmin
- Analytics & BI Tools: Power BI Desktop
- Collaboration & Testing: Git, GitHub, Postman
- Design Tools: Figma, Canva
- Deployment Platforms: Vercel, GitHub Pages, Netlify
- Automotive Tools: iProg+, EEPROM Programmer Tools

Other Skills

- Strong Problem-Solving Ability
- Technical Troubleshooting
- Team Collaboration & Leadership in Group Projects
- Effective Communication
- Time Management & Task Prioritization
- Creativity & Adaptability

Certifications & Achievements

- Dean list holder in 1st year
- AutoDesk AutoCad Certificate Course – 3D ART institute
- Certificate of Service Training in Auto Electrical & Programming (OBD) – OBD Academy

• ElderCare–Elder Home Management System

-Contributed to ElderCare, an Elder Home Management System developed as a group project, designed to streamline operations for elders, guardians, staff, and administrators. Responsibilities included developing the Guardian module for account creation and elder registration requests, implementing the Operator module for elder account handling, and building Admin-side staff account management features. Additionally, worked on innovative functionalities such as an automated reply-based chatbot with a two-way chat room, report generation modules, and automated email notifications. This project strengthened skills in full-stack development, system automation, multi-role user management, and building scalable, user-oriented web solutions.

• DriveMate–Android Mobile Application

-Developed DriveMate, a mobile application designed for vehicle maintenance and service management. Built as an individual project, DriveMate allows users to schedule service bookings, track complete vehicle history—including previous owners and mileage records—and manage essential vehicle details in one place. The project incorporated dashboard prototyping using Figma and full app development in Android Studio. This work enhanced proficiency in Android application development, UI/UX design integration, and implementing practical features for real-world automotive management needs.

• FitPro+ –Wellness Mobile Application

-Created FitPro+, a wellness application focused on habit tracking and mood journaling to support daily well-being. The app enables users to manage habits, view mood trends through a line-graph journal, and set customizable time-based reminders. Implemented using Android Studio with SharedPreferences for local data storage, and developed customizable habit widgets to provide quick access and personalized user interaction. This project strengthened skills in Android development, data persistence, UI customization, and building user-centered wellness features.

• Customer Shopping Behavior Dashboard

-Developed a Customer Shopping Behavior Analytics Dashboard to gain insights from over 3,900 customer transactions. Utilized Power BI for interactive visualizations, Python for data preprocessing and analysis, and pgAdmin for managing and querying the underlying PostgreSQL database. The dashboard provides actionable insights into purchasing patterns, customer segmentation, and sales trends. This project enhanced skills in data analytics, dashboard design, database management, and translating raw data into meaningful business insights.