



VISHMITHA ATTANAYAKA

BSc (Hons) in IT specializing in Data Science

With a relentless curiosity for data-driven insights and a commitment to solving complex problems, I bring a strong foundation in statistical analysis and machine learning techniques. Eager to leverage data for informed decision-making, I am dedicated to advancing in this dynamic field and making meaningful contributions.

Experiences

Jan 2024 - Mar 2025

DATA ANALYST - KPMG SRI LANKA

Contributed to the Forensic division at KPMG Sri Lanka by developing and optimizing Anti-Money Laundering (AML) systems for financial institutions. Gained professional experience in AML compliance, forensic data analysis, SQL-based scenario development, and stakeholder collaboration.

Projects

Jun 2024 - May 2025

UPSCALE THE DIGITAL COMPANION'S DESIGN AND APPEARANCE (RESEARCH PROJECT)

This research introduces a machine learning-based system for real-time customization of digital companions, adapting their appearance, behavior, and interaction style to user demographics and cultural backgrounds. Leveraging neural networks and decision trees, it personalizes 3D avatars by age, gender, and region, enabling culturally sensitive, role-appropriate, and human-like designs that enhance trust and engagement.

Technologies: Python, Google Colab, React, TypeScript, Three.js, Flask, VS Code, Ready Player Me, Blender, GitHub

Link: https://github.com/IT21338984/Research_Project_Digital_Companion.git

Feb 2025 - May 2025

SMART PARKING SYSTEM (IOT & BIG DATA ANALYTICS)

Built a smart parking system using Python/ESP32 with YOLO vehicle detection, EasyOCR license plate recognition, and automated gate control. Integrated MongoDB for reservation verification and Power BI for parking analytics and decision support.

Technologies: Python, EasyOCR, YOLOv8 model, MongoDB, PowerBI, VS Code, PlatformIO, ESP32 Dev Board (ESP32-WROOM-32)

Link: <https://github.com/IT21338984/SmartParkingSystem.git>

REAL-TIME SYSTEM MONITORING DASHBOARD

Developed a Dockerized RESTful API using FastAPI for hospital appointment management, with Prometheus for metrics collection and Grafana for real-time monitoring. Created custom dashboards to track KPIs like request rate, response time, and error rate, ensuring system observability and reliability.

Technologies: FastAPI(Python), Docker, Docker Compose, Prometheus, prometheus-fastapi-instrumentator, Grafana

Link: <https://github.com/IT21338984/Hospital-Appointment-Management-System.git>

Jun 2024 - Nov 2024

ORACLE DATABASE ADMINISTRATION AND MANAGEMENT

Set up Oracle 23ai on Oracle Linux 9. Tuned memory and process limits, secured customer data with redaction, and managed redo logs and control files to ensure integrity and recovery.

Technologies: Oracle VM VirtualBox, Oracle Linux 9, Oracle Database 23ai,

PL/SQL, Oracle Data Redaction, Control file management and restoration

Link: <https://drive.google.com/file/d/1xKOMk1vwPHXIG0-7ivmd6pN8BFiP9WJs/view?usp=sharing>

Contact

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Education

- Sri Lanka Institute of Information Technology**
BSc (Hons) in IT Specializing in Data Science
CGPA 2.90
- St. Thomas' College - Matale**
2011 - 2020
G.C.E. Advanced Level(Maths) - 3Ss
G.C.E. Ordinary Level - 8As & 1B
- Certificate in PYTHON at Coursera
<https://coursera.org/verify/VRW5VQUBUL8W>

Skills

- Programming Languages - Python, Java, C, C++, PHP, R, SQL
- MERN Stack (MongoDB, ExpressJS, ReactJS, NodeJS)
- Web development (HTML/CSS, JavaScript, TypeScript, Vite)
- Adobe Pr, Ae, Ai

Extra Curricular

St. Thomas' College

- ST. JONES member
- RED CROSS member
- Scout member

Feb 2024 – May 2024

SQL SERVER DATA WAREHOUSING AND ETL IMPLEMENTATION

Built a SQL Server data warehouse with a star schema. Developed SSIS ETL pipelines to load OLTP data into the warehouse with SCD Type 2 support. Delivered BI insights and documented with SQL scripts and visuals.

Technologies: SQL Server(SSMS), T-SQL, Star Schema Design, ETL- SQL Server Integration Services (SSIS), Power BI

Link: <https://drive.google.com/file/d/1b0TThj-sFgykcpQIHclv4X9FyafwrluB/view?usp=sharing>

A SOCIAL MEDIA PLATFORM FOR FITNESS ENTHUSIASTS

Developed a web-based social platform for fitness enthusiasts to share workouts, meals, and progress. Features include media uploads, interactive profiles, likes/comments, and a REST API for web and mobile integration.

Technologies: Spring Boot (REST API development), React, Spring Security, OAuth 2.0

Link: <https://github.com/IT21165702/ThriveZone.git>

Jun 2023 – Nov 2023

TRAFFIC PREDICTION SYSTEM

Python-based traffic prediction system utilizes advanced algorithms to forecast traffic patterns, providing real-time insights for efficient route planning and improved transportation management.

Technologies: ML Algorithms, PYTHON, VS Code

Link: https://github.com/IT21338984/Traffic_Prediction_System.git

CUSTOMER SUPPORT CHATBOT

Built a Python-based chatbot for restaurant customer support, offering instant, personalized help with inquiries, reservations, and feedback to enhance the overall dining experience.

Technologies: NLP, Neural Network Model, PYTHON, VS Code

Link: https://github.com/IT21338984/Customer_Support_Chatbot.git

Feb 2023 – May 2023

ONLINE FARMERS MARKETPLACE (MOBILE APPLICATION)

Allowing farmers to sell their products at a price they want while benefiting them and reducing food waste is the main purpose of “Govi Aswanna” mobile application.

Technologies: Android Studio, KOTLIN, FIREBASE

Link: https://github.com/IT21338052/Govi_Aswanna.git

FITNESS MANAGEMENT SYSTEM

“FitCrib” is a fitness management system designed to help users achieve their fitness goals. It allows users to track workouts, monitor food intake, interact with others, and purchase gym equipment.

Admins can oversee user activity and profiles to maintain a positive community environment.

Technologies: VS Code, MERN Stack technologies, POSTMAN

Link: https://github.com/SLIITIP/ITP_WD_B08_G11.git

Jun 2022 – Nov 2022

ONLINE GAMING SITE

An online gaming site “BRIT”, that user can engage with online gaming and offering wide range of interactive and immersive gaming experiences.

Technologies: Eclipse, JAVA, MySQL, TOMCAT, MVC Architecture

Link: https://github.com/IT21338984/Y2S1_OOP_Project-Online_Gaming_Site.git

Feb 2022 – May 2022

ONLINE APARTMENTS SALES SYSTEM

A system called “Pegasus” designed and implemented a user-friendly interface, ensuring an intuitive and efficient browsing experience for buyers, sellers, and real estate agents.

Technologies: HTML, CSS, JAVASCRIPT, PHP, APACHE, MySQL

Link: https://github.com/IT21338984/Y1S2_IWT_Project.git

Reference

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