

# Hansana Samaraweera

## Data Science Intern

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Motivated Data Science undergraduate at SLIIT with strong foundations in machine learning, statistical modeling, and data driven problem solving. Hands on experience building end to end ML pipelines from data preprocessing and feature engineering to model deployment and visualization. Passionate about transforming complex datasets into actionable insights that drive real-world business value. Eager to contribute as a Data Science Intern in a collaborative, innovation driven environment.

### Technical Skills

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**Programming Languages:** Python, Java, JavaScript, C#, C++

**Python Libraries:** NumPy, Pandas, Scikit-learn, TensorFlow, Matplotlib, Flask

**Backend Technologies:** Node.js, Express.js, PHP

**Frameworks & Libraries:** React.js, MERN, .NET

**Cloud & Deployment:** AWS, Azure, Vercel

**Databases:** SQL, MongoDB, SQLite, T-SQL

**Tools & Platforms:** Git, GitHub, Power BI, Google colab, Jupyter Notebook, Jira, VS Code, Visual Studio, Android Studio, Postman, SQL Workbench, Microsoft Fabric

### Professional Skills

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|-------------------------------------|--------------------------|
| • Strong communication skills       | • Fast learning          |
| • Leadership                        | • Problem solving skills |
| • Statistical Thinking              | • Time management        |
| • Highly adaptive to new technology |                          |

### Projects

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**Customer Shopping Behavior Analysis (Python, SQL Server, Power BI)-** [Hansana477/Customer-Shopping-Behavior-analysis](#)

Performed EDA and data cleaning using Python (Pandas). Stored and analyzed data using SQL Server with SQL queries and built an interactive Power BI dashboard to visualize customer purchasing trends and KPIs.

**SMS / Message Spam Detection System (ML + Flask) -** [Hansana477/sms-spam-detection](#)

Developed a spam classification model using Scikit-learn (Naive Bayes) on the SMS Spam Collection dataset, achieving 97% accuracy with text preprocessing via Pandas/NumPy. Integrated into a Flask web

app for real-time predictions, adding explainability by highlighting influential spam words. Impact: Enabled efficient message filtering; enhanced ML deployment and model interpretability skills.

**Weather Forecasting & Prediction System (ML + Full Stack) - [Hansana477/Weather-prediction-system:weather prediction system](https://hansana477.github.io/Weather-prediction-system:weather-prediction-system)**

Developed a full-stack weather prediction app integrating OpenWeatherMap API for real-time data with a Python-based Linear Regression model (Scikit-learn) to forecast temperature trends. Features city search, dynamic Chart.js visualizations, and MongoDB storage for prediction history. Impact: Enhanced backend-ML integration and data visualization improved user insights into weather patterns.

**InkNest Full-Stack ASP.NET Core Blog Platform-[Hansana477/Blog](https://hansana477.github.io/Blog)**

Built a responsive blog app with admin post CRUD (image uploads), user likes/comments via AJAX, and secure Identity auth (roles, email resets via Gmail SMTP). Features dark/light mode, search/pagination, and SQLite DB. Deployed to Azure App Service for scalable hosting.

Impact: Enabled seamless content management and engagement; honed SMTP integration and real-time UX

**Snazzy E-Commerce Platform (MERN Stack) - [BinadaPasandul/snazzy](https://binadapasandul.github.io/snazzy)**

Developed a full-featured MERN e-commerce platform with secure JWT authentication, advanced product filtering, real-time chat support, and Stripe integration for payments. Built an admin dashboard for managing products, promotions, users, and orders while optimizing API performance for smoother user experience.

**Online Gaming Platform(Java, JSP/Servlet, MVC, Tomcat) - [Hansana477/online-gaming-system](https://hansana477.github.io/online-gaming-system)**

Created a full-stack gaming system using Servlets & JSP with MVC architecture. Enabled add games , buy games and user management. Built the full frontend using HTML/CSS/JS.

## Education

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Sri Lanka Institute of Information Technology (SLIIT)

- BSc (Hons) Information Technology specializing in Data Science

## Certifications

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- AI & ML SLIIT
- Postman Api Fundamentals
- Get Started with Microsoft Copilot Studio
- GenAi 101 with Pieces