

# S.A HIRUSHI EMESHIKA

Undergraduate in Data Science | Sri Lanka Institute of Information Technology

186/8 Ranawiru mawatha, Waliwita Road, Malabe.

+94 776 815 642 | [emeshi.h@outlook.com](mailto:emeshi.h@outlook.com)

[emeshika.com](https://emeshika.com) | [GitHub](https://github.com) | [linkedin.com](https://linkedin.com)

---

## Career Objective

Motivated and detail-oriented Data Science undergraduate with practical experience in full-stack development and mobile app creation. Passionate about building innovative software solutions and eager to apply data-driven insights to real-world problems. Actively expanding expertise in data science, machine learning, and modern web technologies.

---

## Certifications

- Python for Beginners - CODL (Code: 1U0ndzVmqr) - [Verify](#)
  - Describe Cloud Computing | Microsoft - [Verify](#)
  - Benefits of Using Cloud Services | Microsoft - [Verify](#)
  - Azure Load Balancer | Microsoft - [Verify](#)
  - Introduction to Amazon Simple Storage Service (S3) | AWS
  - Use Apache Spark in Azure Databricks | Microsoft - [Verify](#)
  - Add & size disks in Azure virtual machines | Microsoft - [Verify](#)
  - Configure virtual networks | Microsoft - [Verify](#)
  - Introduction to Azure virtual machines | Microsoft - [Verify](#)
  - Describe Cloud Service Types | Microsoft - [Verify](#)
  - Describe Azure identity, access & security | Microsoft - [Verify](#)
  - Configure virtual machine availability | Microsoft - [Verify](#)
  - Cloud Practitioner | AWS SimuLearn - [Verify](#)
  - Introduction to Azure HDInsight | Microsoft - [Verify](#)
  - Configure Azure Blob Storage | Microsoft - [Verify](#)
- 

## Education

Sri Lanka Institute of Information Technology (SLIIT)

- BSc (Hons) in Information Technology - Specialization in Data Science

Sri Lanka

Jul 2023 - Present

---

## Technical Skills

- Programming Languages: **Python, C++, Java, Kotlin, PHP, JavaScript, HTML, CSS**
  - Frameworks & Libraries: **React, Node.js, Express.js, Bootstrap, Streamlit**
  - Databases: **MySQL, MSSQL, MongoDB**
  - Tools & Environments: **Git, Postman, Figma, JetBrains IDEs, Visual Studio Code, Android Studio**
  - Concepts & Practices: **Object-Oriented Programming (OOP), RESTful API Development**
  - Platforms: **Web Development, Android Mobile Application Development**
- 

## Projects

### 01. LankaVoyage - Gen AI Trip Planner

- Developed a multi-agent Gen AI web application using Python, Flask, MongoDB, and Redis.
- Engineered scalable system architecture with a Flask API Gateway orchestrating four core software agents.
- Implemented robust security/data management using MongoDB, Redis caching, and Single Sign-On (SSO).
- Designed the core logic to adhere to Responsible AI principles for safe travel recommendations.
- Communicated system viability via a technical pitch detailing the commercial model and architecture.

### 02. DataX – Ride Cancellation Model

- Developed predictive classification model to forecast ride cancellation likelihood.
- Engineered a full ML pipeline architecture with strict controls to ensure data leakage prevention.
- Implemented preprocessing flow using Imputation, Encoding & Standard Scaling.
- Designed highly predictive features like location-specific cancellation rates to quantify localized risk.
- Communicated model viability & business impact by achieving accuracy on highly skewed dataset.

### 03. Caregiver Management System – CareConnect

- Developed a full-stack web application using React.js, Node.js, Express.js, and MongoDB.
- Designed interfaces for user login, admin dashboard, and payment processing.
- Integrated card payment system with masked card data stored securely in the database.
- Implemented refund status update of payment history.

#### 04. Finance Tracker Mobile App - BudgetBuddy

- Designed and developed a mobile app in Kotlin using Android Studio.
- Allowed users to manage income and expense transactions with title, category, and amount.
- Displayed pie charts and bar graphs to show income vs expenses using MPAndroidChart.
- Included login/signup functionality with data validation and SharedPreferences for persistence.
- Enabled budget setting, alert notifications, and warning indicators when limits exceeded.

#### 05. Ticket Booking System

- Used PHP for server-side scripting and MySQL to manage booking data.
- Designed frontend using HTML, CSS, and Bootstrap for layout.
- Enabled users to book, cancel, and view tickets with real-time availability updates.

#### 06. Movie App - MovieBuddy

- Built a movie information app in Android Studio to display movie titles, posters, and ratings.
- Implemented search functionality, detail pages, and user review storage.
- Designed custom adapters for RecyclerView to list and display movies efficiently.
- Focused on material UI design with clean layouts and intuitive navigation.
- Handled edge cases such as no internet connection and empty results gracefully.

---

#### Languages

- English (Fluent)
- Sinhala (Native)

---

#### Interests

- Data Analytics & Machine Learning.
- Database Design & Optimization.
- UI/UX Design.
- Mobile App Development.
- Open-source contributions.
- Designing Personal Projects for Real-world Problems.
- Tech Blogging and Learning Platforms.
- Watching Tech Talks & Developer Conferences.

---

#### References

- Harith Dilshan | Offensive Security Engineer  
Etiqua Insurance - Singapore  
+65 8763 9960  
[harith.s@etiqua.com.sg](mailto:harith.s@etiqua.com.sg)
- SMB Harshanath | Lecturer Department of IT  
Sri Lanka Institute of Information Technology (SLIIT)  
+94 77 776 242 3  
[harshanath.s@slit.lk](mailto:harshanath.s@slit.lk)