



NIPUNI SIRIWARDHANA

DATA ENGINEER | AI/ML ENGINEER | DATA ANALYST

CONTACT

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- Malabe, Colombo, Sri Lanka

EDUCATION

2022 - 2026

SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY (SLIIT)

- Bsc.(Hons)Information Technology specialized in Data Science

2012 - 2020

FERGUSON HIGH SCHOOL, RATHNAPURA

- G.C.E. Advanced Level Examination (Science Stream)
- G.C.E. Ordinary Level Examination

TECHNICAL SKILLS

PROGRAMMING LANGUAGES

- Python
- R
- Java
- C/C++

WEB DEVELOPMENT & FRAMEWORKS

- HTML
- CSS
- Spring Boot
- Flask
- Streamlit

PROFILE

As a final-year Data Science undergraduate at SLIIT, I am passionate about building intelligent and scalable data solutions using modern technologies. I have hands-on experience in data analytics, machine learning, and data engineering, with a strong foundation in Python, SQL, Power BI, and Microsoft Fabric. My projects involve data preprocessing, model development, and dashboard automation, reflecting both technical depth and problem-solving ability. I am eager to apply my analytical mindset and technical skills to real-world AI and data-driven environments that drive business innovation.

WORK EXPERIENCE

- Trainee Data Engineer - SAS Creative** 2025 JUN - 2025 DEC
272, 2 High Level Rd, Pannipitiya, Sri Lanka (Onsite)
 - Supported Demand Planning team in Data Warehouse & Power BI projects for stock and sales reporting.
 - Automated daily stock and sales data using Microsoft Fabric and Medallion Architecture.
 - Designed dashboards to track product performance, inventory movement, and sales trends
- Intern Data Analyst - Mobitel Head Office** 2024 NOV - 2025 MAY
148, 15 Lesley Ranagala Mawatha, Colombo 8, Sri Lanka (Onsite)
 - Conducted time series analysis on large volumes of telecom data to uncover key trends, lagged relationships, and insights that informed strategic business decisions.
 - Designed and implemented a data pipeline to automate the collection and analysis of macroeconomic indicators using web scraping techniques.
 - Developed a machine learning model to predict vegetable prices based on historical market data and external factors.
 - Conducted personnel profile analysis to map relationships between directors and their companies, identifying key influencers to approach for potential business partnerships.

PROJECTS COMPLETED

- End-to-End Azure Data Engineering Pipeline** 2026
 - Built an end-to-end cloud data engineering pipeline using the AdventureWorks dataset and Medallion Architecture. Ingested raw CSV data into Azure Data Lake Storage Gen2 using Azure Data Factory, transformed data with Azure Databricks and PySpark, and created Gold-layer SQL views in Azure Synapse Analytics for reporting and analysis.
 - Technologies:** Azure Data Factory, Azure Data Lake Storage Gen2, Azure Databricks, PySpark, Azure Synapse Analytics, SQL, Parquet, Microsoft Entra ID, Medallion Architecture
- AI-Powered Interview Training Voice Bot** 2026
 - Built an AI-driven interview training system using Retrieval-Augmented Generation (RAG) to generate role-specific questions from uploaded job descriptions. Integrated a Wav2Vec2-based speech emotion recognition model to analyze confidence and emotional stability, and developed an explainable feedback dashboard for performance evaluation.
 - Technologies:** Python, PyTorch, FAISS, Wav2Vec2, Ollama, Gemini API, RAG

DATA SCIENCE & MACHINE LEARNING

- NumPy
- Pandas
- Scikit-learn
- Keras
- TensorFlow
- NLP
- Web Scraping
(BeautifulSoup / Requests)
- Time Series Forecasting

DATABASES & ETL TOOLS

- MySQL
- SQL Server
- SSIS
- Data Pipelines
- Postman
- REST API

CLOUD PLATFORMS & BI TOOLS

- Microsoft Fabric
- Power BI
- Tableau
- AWS
- Azure
- SSAS, SSIS

VERSION CONTROL & COLLABORATION

- Git
- GitHub

SOFT SKILLS

- Teamwork
- Time Management
- Leadership
- Effective Communication
- Critical Thinking

INTEREST

- Data Engineering
- AI/ML Developing
- AI/ML Engineering
- Data Science
- Data Analyst

- **Construction Safety Monitoring System** 2026
 - Developed an AI-driven construction safety monitoring system using computer vision techniques to detect and classify safety violations in real-time. Integrated deep learning models to identify potential hazards and alert workers and supervisors.
 - **Technologies:** *Computer vision, Roboflow, YOLO, Deep Learning, PyTorch*
- **Sentiment Analysis API** 2026
 - Developed a RESTful API for performing sentiment analysis on text data. Utilized pre-trained language models to provide accurate sentiment predictions and integrated the API with a simple web interface for user interaction.
 - **Technologies:** *scikit-learn, python, machine learning, Rest API*
- **Vegetable Price Forecasting** 2025
 - Built a predictive model using historical vegetable prices and economic indicators to forecast future prices, helping farmers, traders, and consumers make informed decisions. Applied advanced time series models such as VAR, VECM, and ARDL.
 - **Technologies:** *Python, Pandas, NumPy, Statsmodels, Machine Learning*
- **Data Warehousing and PowerBI Dashboard** 2025
 - Designed a snowflake-schema data warehouse using RESTAPI, JSON, Microsoft Fabric and PowerBI for business reporting and analysis.
 - **Technologies:** *SQL, Power BI, Microsoft Fabric, JSON, RESTAPI, Postman*
- **Company Director Extract Using NLP** 2025
 - Developed a web scraping and NLP tool to extract company director names from CSE-listed websites and analyze relationships between directors and their companies to identify key influencers for strategic business opportunities.
 - **Technologies:** *Python, BeautifulSoup, Requests, spaCy, Regex, Flask*
- **AI-Blog Assistant (BlogBotAI)** 2024
 - A web application using Streamlit and Google’s Generative AI to generate high-quality, engaging blog posts based on user-specified titles and keywords.
 - **Technologies:** *Python, Streamlit, Generative AI*

COURSES AND CERTIFICATIONS

- AI / ML Engineer (Stage 1) – SLIIT (2024)
- AI / ML Engineer (Stage 2) – SLIIT (2024)
- Data Science Foundation – Great Learning (2024)
- Python Basic – HackerRank (2024)
- Basics of Exploratory Data Analysis – Great Learning (2024)
- Power BI for Beginners – Simplilearn (2024)
- Introduction to Data Analytics – Simplilearn (2024)
- AWS Academy Cloud Foundations – AWS Academy (Present)

REFERENCE

Sasith Senarath Pathirana

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