

LAYANJALA JAYASUNDARA

DATA ANALYST ENTHUSIAST

Motivated Computer Science undergraduate with a strong interest in business intelligence and data analytics. Currently working as a BI Support Executive Intern, developing Power BI dashboards, data models and DAX measures. Skilled in Microsoft Fabric, data processing, database analysis and creating data-driven solutions.

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Layanjala Jayasundara | Yasashrini Jayasundara | LayanjalaJayasundara

EDUCATION

B.Sc. (Hons) in Computer Science and Technology (2022- present)

- Uva Wellassa University of Sri Lanka
- Current cumulative GPA = 3.67

PROFFESSIONAL SKILLS

Prima Management Services (Pvt) Ltd

- Intern BI Support Executive
- 2026 May - Present

- Analyze data from relational databases to identify trends, patterns, inconsistencies, and key business insights for reporting and decision-making.
- Develop interactive and user-focused Power BI dashboards that transform complex datasets into clear, actionable visual reports for business users.
- Design and implement data models using Microsoft Fabric, establishing structured data flows and relationships to support scalable business intelligence solutions.
- Clean, transform, and preprocess raw datasets by identifying missing values, inconsistencies, duplicates, and formatting issues to improve data quality and reporting accuracy.
- Develop and optimize DAX measures and calculated metrics to perform business-specific calculations, KPI analysis, aggregations, and dynamic reporting within Power BI.
- Build and maintain Power BI data models by defining appropriate relationships, organizing datasets, and preparing data structures for efficient dashboard development.
- Integrate and prepare data from multiple sources for Power BI reporting, ensuring consistency and reliability across dashboards and analytical outputs.
- Analyze business requirements and translate them into meaningful visualizations, KPIs, and analytical reports that support operational and management-level decision-making.
- Validate and troubleshoot datasets, data models, DAX calculations, and dashboard outputs to ensure accuracy, consistency, and reliability of BI reports.
- Enhance dashboard usability and performance by refining data models, calculations, visual layouts, and reporting structures based on business requirements.

RESEARCH AND PROJECTS

Detect and Quantify Aflatoxin Levels in Corn Kernels Using Digital Image Processing and Machine Learning with UV Fluorescence Imaging.

- Designed, developed, and evaluated a deep learning–based model to detect and quantify aflatoxin contamination in corn kernels using UV fluorescence imaging, digital image processing, and machine learning techniques. Completed the research by implementing and evaluating the model for contamination level classification and quantitative prediction, demonstrating its potential as a rapid, non-destructive, and scalable approach to food safety and quality assessment.
- Technologies: Python, Deep Learning, Machine Learning, Digital Image Processing, UV Fluorescence Imaging

Travel Agency Analytics Dashboard

- Built an end-to-end analytics solution simulating a real-world travel agency workflow. Collected and integrated data from multiple sources, then cleaned and preprocessed it using Python to handle missing values and inconsistencies. Designed a PostgreSQL database and performed SQL-based analysis to extract key insights on revenue and customer behavior. Developed interactive Power BI dashboards to present KPIs and support data-driven decision-making.
- Technologies – Python (Pandas, NumPy), PostgreSQL, Power BI, Jupyter Notebook, SQL

Interactive Revenue Dashboard (Power BI)

- Developed an interactive dashboard to analyze sales performance, including revenue trends, profit and quantity metrics, geographic insights, customer segmentation, and product category performance. Enabled data-driven decision-making by transforming complex datasets into clear, actionable insights.
- Technologies –Power BI, DAX

Real Estate Management System

- Built a full-stack web application to simplify real estate transactions by enabling buyers, sellers, and agents to browse, list, and manage property listings through an intuitive interface.
- Technologies – React, Vite, Tailwind CSS, Django, Django REST Framework, SQLite, GitHub

TECHNICAL SKILLS

Programming Languages: SQL, Python, Java, C, PHP, JavaScript, HTML, CSS
Frameworks & Libraries: Pandas, NumPy, Matplotlib, Django, Flask, React.js
Databases: PostgreSQL, MySQL
Tools: Power BI, Microsoft Excel, MS Fabric, Jupyter notebook, VS Code, GitHub, Figma

PERSONAL SKILLS

- Leadership
- Teamwork
- Self-motivation
- Problem-solving
- Public Speaking
- Adaptability
- Time management
- Communication

INTERESTS

- Data Analysis/ Engineering/Science
- Python Development
- System Administration
- Software Engineering

CERTIFICATES

Programming in Python: Open Learning Platform - UoM
Toastmasters International: Level 1 of Presentation Mastery
AI/ML Engineer - Stage 1: Centre for Open and Distance Education- SLIIT
AI/ML Engineer - Stage 2: Centre for Open and Distance Education- SLIIT(Ongoing)

ACHIEVEMENTS

Dean List
IEEEXtreme Programming Competition: Participation (2024, 2025)
UvaXtreme Programming Competition: Participation (2024)

EngWrangle - Debate Competition by CSI Department of UWU (2022): Winners

EXTRA CURRICULAR ACTIVITIES

IEEE Student Branch UWU - WIE Affinity Group: Chairperson (Apr 2025 - March 2026), Vice Chairperson (Jan 2024 - Apr 2025)
IEEE Young Professionals Sri Lanka - SLI National Project: Vice Chairperson - Finance (2025), Member Coordinator (2024)