


# Chamathsara Chamodie Marasingha

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<https://github.com/CHAMATHSARA-KDU>

## Profile

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Microsoft Certified Power BI Data Analyst Associate and Applied Data Science and Communication undergraduate with a strong foundation in data analysis, visualization, and business intelligence. Experienced in working with real-world datasets using Power BI, Excel, Python, and SQL to generate actionable insights. Passionate about combining data and communication to support informed decision-making, and eager to contribute to data-driven projects in an internship setting.

## Education

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**General Sir John Kotelawala Defence University** 2024 – 2027

*Bachelor of Science in Applied Data Science and Communication*

- **Relevant Coursework:** Advanced SQL and Cloud Database, Data Mining, Fundamentals of Mathematics and Statistics, Fundamentals of R, Effective Writing Skill, Python, Effective Presentation Skill, Economics

**G.C.E. Advanced Level Examination – Biological Science Stream** 2023

*Subjects: Biology, Chemistry, Physics*

## Skills

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**Programming:** Python, SQL, R

**Data Tools:** Power BI, Excel, Pandas, NumPy, Seaborn, Matplotlib

**Databases:** Microsoft SQL Server (SSMS)

**Other Tools:** Git, VS Code, Google Colab, Jupyter Notebook

**Soft Skills:** Communication, Teamwork, Problem-Solving

## Projects

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**Samsung Supply Chain & Logistics Dashboard** | *Power BI, DAX, Data Modeling, Data Visualization* 2026

- Built an interactive dashboard to analyze supplier performance, inventory turnover, shipment efficiency, and customer purchasing patterns across platforms.
- Identified procurement cost drivers, stock optimization opportunities, and delivery bottlenecks using DAX measures and data modeling.
- Visualized key KPIs including revenue & profit trends, supplier lead times, inventory stock value, and shipment costs to support data-driven supply chain decisions.

**Autonomous Supplier Intelligence Agent** | *Python, LangChain, Groq LLaMA 3, Streamlit* 2026

- Developed an autonomous AI agent for supply chain risk analysis, reducing supplier research time from 2–3 weeks to under 60 seconds.
- Built a LangChain ReAct agent with Tavily API and Groq LLaMA 3 to evaluate suppliers across reputation, financial, geopolitical, and delivery risks.
- Implemented real-time monitoring with APScheduler and automated alerts, along with PDF report generation via ReportLab and Gmail SMTP.
- Designed an interactive Streamlit dashboard with supplier watchlist, persistent storage, and downloadable reports.

**Customer Demographics & RFM Analysis Dashboard** | *Power BI, DAX, Data Modeling, Data Visualization* 2026

- Developed a multi-page Power BI dashboard analyzing customer behavior through demographic insights and RFM (Recency, Frequency, Monetary) analysis across \$29.36M in total sales and 18.48K customers.
- Segmented customers into loyalty tiers (loyal, new, at-risk, and lost) using RFM scoring to support targeted retention campaigns and optimized marketing ROI.
- Visualized key metrics including gender distribution, marital status, age bands, and global sales by country to enable data-driven decision-making for customer engagement strategies.

**AI Policy Summarizer & Scenario Generator** | *Python, Gradio, Gemini API, NLTK, HuggingFace* 2026

- Built a dual-panel web application that extracts, preprocesses, and summarises real-world government policy documents using NLTK tokenisation, stopword removal, and lemmatisation.
- Integrated Gemini 2.5 Flash API and a BART transformer fallback to generate structured, scenario-adapted policy drafts across six predefined lenses including Education, Healthcare, and Rural Development.

- Implemented a custom scenario engine allowing users to define arbitrary adaptation contexts, producing formally structured six-section policy outputs derived exclusively from uploaded source documents.

## **SDG 2 – Zero Hunger Analytics Dashboard** | *SQL Server, Power BI, Advanced DAX*

2025

- Transformed UN SDG datasets into a dashboard analyzing global food security, nutrition, and sustainable agriculture trends.
- Applied SQL, star-schema modeling, and DAX to identify disparities, vulnerabilities, and policy priorities for 2030 Zero Hunger targets.

## **Certifications**

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### **Microsoft Certified: Power BI Data Analyst Associate (PL-300)** | Microsoft

Demonstrated expertise in data analysis, data modeling, visualization, and creating actionable insights using Power BI.

### **Microsoft Certified: Azure Data Fundamentals (DP-900)** | Microsoft

Gained foundational knowledge of core data concepts, cloud data services, and Azure data solutions.

### **Python for Data Science, AI & Development** | IBM (Coursera)

Developed strong Python programming skills and applications in data science and AI.

### **Certificate in Quantitative Data Analysis** | University of Sri Jayewardenepura

Strengthened understanding of statistical and quantitative data analysis techniques for real-world applications.

### **Prompt Engineering for ChatGPT** | Vanderbilt University (Coursera)

Learned to design effective prompts for AI tools, enhancing practical AI application skills.

## **Clubs & Extracurricular Activities**

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### **AI and Data Science Club** – Co-Editor (2025–2026)

Contributed to content creation, organized workshops and seminars, and supported club activities for knowledge sharing in AI and data science.

## **References**

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### **Ms. Chamodhi Wickramasinghe**

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