

Pasindu Purnamal

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SUMMARY

AI & Data Engineer with 2+ years of experience in software engineering and data, specializing in building intelligent and scalable solutions. Skilled in Python, R, SQL, and cloud platforms (Azure, AWS, GCP). Proficient in developing and deploying ML models in production with a strong focus on MLOps, NLP, and AI automation.

Hands-on expertise in modern AI technologies, including Multi-Agent Systems, LangChain, LangGraph, and MCP, for building advanced AI-powered assistants and automation pipelines. Experienced in enterprise data engineering with SSIS, SSMS, SSRS, and SQL-based transformations. Strong background in designing AI-driven Solutions that optimize customer support, service operations, and business decision-making.

EXPERIENCE

Data And AI Engineer

H One Pvt Ltd (Microsoft Solution Provider)

June 2024 – Present, Sri Lanka · Onsite

- Develop AI products using cloud platforms, focusing on production-ready solutions.
- Build data and ML pipelines for enterprise customers
- Design and develop AI-powered chatbots and coworker copilots for customer support following RAG architecture in Azure.
- Implement custom vision, Document Intelligence and cognitive search solutions, demonstrating hands-on experience with advanced AI technologies

Intern - Data Analyst

Dialog Axiata PLC

June 2023 – June 2024, Sri Lanka · Onsite

- Analyzed data using SQL, Python, Power BI, Snowflake, Azure, and AWS.
- Worked on the **TV Audience Project**, creating datasets, visuals, and insights for improved data analysis.
- Contributed to the Financial Company SSRS Project, designing reports to streamline financial data insights.
- Collaborated with seniors during customer visits to gather requirements and gained experience in understanding business needs.

PROJECTS

Australian College Chatbot – Australian College

Mar 2025 – Jul 2025

- Developed a sophisticated AI chatbot to handle student queries, showcasing advanced NLP and retrieval-augmented generation (RAG) capabilities.
- Enhanced student support services by delivering accurate, context-aware responses through Microsoft Azure and OpenAI integration.

Email Generation with LLaMA2 – Personal Project

Jul 2025

- Developed an AI system to generate personalized outreach emails using **LLaMA2**, **LangChain**, and **ChromaDB**.
- Implemented data scraping to extract job descriptions, enabling RAG-based matching with portfolio data.
- Automated B2B cold email generation for business development scenarios.

Woldorf Project – Data Migration and Automation – Waldorf Astoria

Oct 2024- Jan 2025

- Migrated financial data to Microsoft Fabric and automated data ingestion using Dataflow Gen2.
- Built a centralized data warehouse ensuring high reporting accuracy.
- Enabled faster, more reliable reporting across the Microsoft ecosystem with improved data accessibility.

E – Commerce AI Assistant – Customer Support And Track Their Products

Jul 2025

- Developed a context-aware, session-based chatbot for Singer's e-commerce platform using **Python**, **LangGraph** and **Azure OpenAI**, **SQL Server**.
- Modeled conversation logic as a graph with modular nodes for intent detection, LLM response generation, and database lookups.

- Developed **Multi-Agent system using Azure OpenAI, LangChain, LangGraph, and MCP** for stock recommendations.
- Implemented agents for **data retrieval, reasoning, and summarization** to deliver insights.
- Integrated live market APIs to generate automated investment suggestions.

AI Agent for Call Center – (testing with Dialog)

Mar 2025- Present

- Developed an AI conversational agent to automate FAQs and enhance customer support efficiency. Integrated with Azure OpenAI and Livekit.
- Configured **SIP** to Enabled customers to interact with the AI assistant through their regular phone line.

AtliQ Hardware Sales Insights Dashboard – AtliQ Hardware

Jan 2023

- Designed a Power BI dashboard visualizing sales data sourced from MySQL.
- Provided actionable insights to optimize sales strategies.

Nenasa TV Viewership Dashboard – Nenasa TV

Nov 2023

- Built a dashboard in Amazon QuickSight to analyze viewership and program performance.
- Integrated Snowflake for scalable data storage and querying.

Bank Statement Extraction Application – Internal Finance Team

March 2025

- Developed an automated system using Azure OpenAI and Document Intelligence to extract financial data from bank PDFs.

AI Avatar Generation App – Internal Marketing Team

April 2025

- Developed a application using Azure AI Avatar to generate custom avatars for internal use.
- Simplified avatar creation for marketing and training content through the App.

EDUCATION

Physical Science With IT,

• Walasmulla National School • Aug 2018 • Completed Advance level in the physical stream with two Good Pass, Credit Pass respectively in ICT, Combined Mathematics and Physics

Bachelor's degree in Information Technology (Up to Diploma Level),

University of Colombo • Colombo, LK • 2020

BSc (Hons) in Information Technology Specializing in Data Science,

SLIIT • Colombo, LK • Sep 2024

CERTIFICATIONS

Microsoft Certified: Fabric Data Engineer Associate (DP-700)

Microsoft • 2025

Microsoft Certified: Azure AI Engineer Associate (AI-102)

Microsoft • 2025

Microsoft Certified: Azure Fabric Analytics Engineer Associate (DP-600)

Microsoft • 2024

Analytics & AI | Industry Practice Intern Course

Data Analytics Academy of Dialog • 2024

Completed Azure ML Challenge

Microsoft • 2024

Supervised Machine Learning - Regression and Classification

Coursera • 2023

Linear Regression with NumPy and Python Guided Project

Coursera • 2022

Python for Data Science and AI

Coursera • 2021

Python For Everybody (Getting Started with Python)

Coursera • 2021

RESEARCH WORKS

Vocal Exercises Personalization | Final Year Research Project | Aug 2023 – June 2024

• Conducted research on developing a Machine Learning model to deliver personalized vocal training plans based on voice type, skill level, and gender.

- Explored classification algorithms, data preprocessing methods, and model evaluation techniques to optimize training personalization.
- Aimed to enhance the effectiveness of vocal exercises through targeted personalization.

SKILLS

Programming Languages: Python, R, SQL, Java, Snowflake

Cloud Platforms: Azure, AWS, Google Cloud Platform (GCP)

Data Engineering : Microsoft Fabric, Data Factory

Machine Learning: Deep Learning, NLP, Time Series Analysis, RAG

Project Management: Jira, Scrum, Kanban

Tools: TensorFlow, PyTorch, Scikit-learn, Pandas, Azure ML

Big Data: Hadoop, Spark, PySpark

DevOps & MLOps: Git, CI/CD, Docker, Azure DevOps

Visualization: Power BI, Tableau, QuickSight(AWS)

LLM frameworks: Hugging Face, OpenAI API, Langchain ,LangGraph, MCP

OTHER ACTIVITIES

- Member of LEO Club of SLIIT
- Member Of SLIIT ART CIRCLE
- Member Of SLIIT CAROLS Team

REFERENCES

- **Eranda Adikari**, Vice President - Data & AI
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- **Suranga Nanayakkara**, Consultant – Data Analytics
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