

PASINDU PURNAMAL

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SUMMARY

AI & Data Engineer with 3+ years of experience designing and deploying production ML and generative-AI solutions on Azure. Specializes in RAG-based chatbots, multi-agent systems (LangChain, LangGraph, MCP), and enterprise data pipelines (Microsoft Fabric, Airflow, SSIS, DataBricks). Microsoft Certified in Azure AI Engineering, Fabric Data Engineering, and Fabric Analytics Engineering, with a Microsoft AI Developer certification in progress. Looking to bring this experience to an AI/Data Engineering role focused on applied LLM systems and MLOps at scale.

EXPERIENCE

Data Engineer | *Vitalfew* Mar 2026 – Present
Melbourne, Victoria, Australia · Hybrid

- Working on a client engagement with DAI Post, focused on data processing, AI solutions, and analytics.

Data and AI Engineer | *H One Private Limited (Microsoft Solution Provider)* Jul 2024 – Mar 2026
Colombo District, Western Province, Sri Lanka · On-site

- Designed and deployed production-ready AI systems using Python, Azure OpenAI, RAG architectures, and multi-agent frameworks.
- Built scalable data pipelines and enterprise data platforms using Microsoft Fabric, SSIS, and SQL Server.
- Developed AI-powered copilots and conversational agents for customer support automation.
- Reduced manual operational workload through AI-driven automation and intelligent assistants.
- Worked closely with enterprise clients to transform business operations through AI-driven automation.

Intern – Data Analyst | *Dialog Axiata PLC* Jun 2023 – Jun 2024
Sri Lanka · Onsite

- Analyzed operational and customer data using SQL, Python, Power BI, Snowflake, Azure, and AWS.
- Built datasets, visuals, and insights for the TV Audience Project to support improved audience analysis.
- Designed SSRS reports for the Financial Company project, streamlining financial data reporting.
- Supported senior staff in customer requirement-gathering sessions, building business-needs analysis experience.

PROJECTS

E-Commerce AI Assistant — Singer E-Commerce Platform Jul 2025

- Built a context-aware, session-based support chatbot using Python, LangGraph, Azure OpenAI, and SQL Server for customer support and order tracking.
- Modeled conversation logic as a graph with modular nodes for intent detection, LLM response generation, and database lookups.

Multi-Agent Stock Recommendation System — Personal Project Aug 2025

- Developed a multi-agent system with Azure OpenAI, LangChain, LangGraph, and MCP to generate stock recommendations.
- Implemented dedicated agents for data retrieval, reasoning, and summarization, integrated with live market APIs.

Data Warehousing & Dashboards — Waldorf Astoria Oct 2024 – Mar 2025

- Architected an automated Medallion (Bronze/Silver/Gold) architecture in Microsoft Fabric to replace a manual financial reporting process.
- Built ingestion pipelines with Dataflow Gen2 and transformation/cleansing logic in PySpark, feeding a centralized Fabric Warehouse behind Power BI dashboards.

Data Warehouse Implementation — Sri Lankan Banking Firm Aug 2025

- Built SSIS-based ETL pipelines integrating the AS400 core banking system into SQL Server on a D-1 incremental schedule.
- Developed SSRS reports on PBIRS and an interactive Power BI dashboard for executive reporting.

AI Agent for Call Center — Piloting with Dialog Mar 2025

- Built an AI conversational agent to automate FAQ handling and improve customer support efficiency, integrated with Azure OpenAI and LiveKit.
- Configured SIP so customers can interact with the assistant over a standard phone line.

Australian College Chatbot — Australian College Mar 2025 – Jul 2025

- Built an end-to-end RAG chatbot with FastAPI, Azure, and Azure OpenAI to automate student query routing and reduce response time.

Bank Statement Extraction Application — Internal Finance Team	Mar 2025
Automated extraction of financial data from bank statement PDFs using Azure OpenAI and Document Intelligence.	
Email Generation with LLaMA2 — Personal Project	Jul 2025
Built an AI system generating personalized B2B outreach emails using LLaMA2, LangChain, and ChromaDB, with scraped job data for RAG-based matching.	
Nenasa TV Viewership Dashboard — Nenasa TV	Nov 2023
Built an Amazon QuickSight dashboard analyzing viewership and program performance, backed by Snowflake.	

EDUCATION

BSc (Hons) in Information Technology, Specializing in Data Science	Sep 2024
<i>SLIIT · Colombo, Sri Lanka</i>	
Bachelor's Degree in Information Technology (External) — In Progress, up to Diploma level	Since 2020
<i>University of Colombo · Colombo, Sri Lanka</i>	
G.C.E. Advanced Level — Physical Science with ICT	Aug 2018
<i>Walasmulla National School — Good Pass in ICT; Credit Passes in Combined Mathematics and Physics</i>	

CERTIFICATIONS

Microsoft Certified: SQL AI Developer Associate (DP-800) — In Progress, 2026	
Microsoft Certified: Fabric Data Engineer Associate (DP-700) — 2025	
Microsoft Certified: Azure AI Engineer Associate (AI-102) — 2025	
Microsoft Certified: Fabric Analytics Engineer Associate (DP-600) — 2024	
Analytics & AI Industry Practice Intern Course — Data Analytics Academy of Dialog, 2024	
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

Vocal Exercises Personalization — Final Year Research Project	Aug 2023 – Jun 2024
- Researched an ML model to generate personalized vocal training plans based on voice type, skill level, and gender. - Evaluated classification algorithms, preprocessing methods, and model evaluation techniques to optimize training personalization.	

SKILLS

Programming: Python, R, SQL, Java
Cloud Platforms: Azure, AWS, Google Cloud Platform (GCP)
Data Engineering: Microsoft Fabric, Data Factory, Apache Airflow, SSIS, SSMS, SSRS
Machine Learning: Deep Learning, NLP, Time Series Analysis, RAG
LLM Frameworks: LangChain, LangGraph, MCP, Hugging Face, OpenAI API
Big Data: Hadoop, Spark, PySpark
MLOps & DevOps: Git, CI/CD, Docker, Azure DevOps
Visualization: Power BI, Tableau, Amazon QuickSight
Tools: TensorFlow, PyTorch, Scikit-learn, Pandas, Azure ML
Project Management: Jira, Scrum, Kanban

OTHER ACTIVITIES

Member, LEO Club of SLIIT	
Member, SLIIT Art Circle	
Member, SLIIT Carols Team	

REFERENCES

Available upon request.