



PAVITRA MANDAL

AI & DATA ENGINEER

GENAI • MLOPS INFRASTRUCTURE • DATA PLATFORMS

ABOUT ME

Full-time AI & Data Engineer with 4+ years of experience in AI Agent Development, MLOps Infrastructure, ETL or Data Lake House Architecture, and Data Migration. My experience includes extensive work in consumer electronics demand forecasting, enterprise sales analytics, AI-driven BI platforms, telecom data infrastructure, and large-scale cloud platform migrations across global markets including Japan, North America, and Southeast Asia

WORK EXPERIENCE

AI & DATA PLATFORM ENGINEER (CURRENT – SONY, TOKYO)

- Design and development of AI Observability Platform integrating Snowflake Cortex Analyst with TruLens for LLM monitoring and RAG evaluation.
- Architecture of enterprise ETL/ELT pipelines processing 500K+ daily records using Databricks, Snowflake, and PySpark with Medallion Architecture.
- AI-driven demand forecasting system development across 280+ product lines for global markets (Japan, North America, Southeast Asia).
- Led enterprise platform migration from Dataiku PaaS (¥40M/year) to Azure Databricks IaaS (¥4M/year), achieving 10x cost reduction.
- Orchestrated 15+ production pipelines & improved prediction accuracy by 15% and data processing speed by 30% post-migration.

SOFTWARE ENGINEER – (TECHMAHINDRA – CISCO & ROGERS)

- Enterprise data migration for Cisco Systems handling 50TB+ across telecom infrastructure with automated validation frameworks.
- Built RAG-based API support chatbot with private LLM deployment (Ollama), reducing support tickets by 40%.
- Migrated on-premise SQL Server databases to Azure Data Lake Storage for Rogers Communications, automating ingestion via Azure Data Factory with incremental load patterns

CONTACT

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EDUCATION

- Bachelor of Engineering
G.H.Raisoni Institute, Nagpur
- HSC | 12th Std
O.F.H.School Chanda
- SSC | 10th Std
O.F.H.School Chanda
- Data Scientist Associate
Microsoft Azure
- Data Engineer Associate
Microsoft Azure
- Oracle@AWS Certified
Architect Professional
Oracle University

LANGUAGE

- English
- Japanese
- Hindi | Marathi | Bengali