

# Gnaneshwar Sreepathi

AI / Data Engineer | Power Platform Developer

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## Professional Summary

IT professional with 4+ years of cross-functional experience in AI/MLOps, Data Analytics, developing Power Platforms, and Software Quality Engineering. In the process of obtaining an MSc in Data Analytics (National College of Ireland, 20252026) and actively upskilling in Generative AI and LLMs. Experienced in developing end-to-end MLOps pipelines, CI/CD automation, cloud infrastructure (AWS and Azure), business intelligence dashboards, and process automation. Skilled in connecting data engineering, DevOps, and AI fields to bring about scalable, production-grade solutions.

## Skills Matrix

Category	Technology / Tools	Proficiency (1-5)	Experience
Programming & Data	Python, SQL, DAX	4	3-4 Years
Data & BI	Power BI, Excel, Data Modeling, ETL, ADF	4	2-3 Years
Power Platform	Power Apps, Power Automate, Dataverse	4	2+ Years
Cloud	AWS, Azure, GCP	3	2-3 Years
AI / ML / MLOps	ML, MLflow, Kubeflow, Airflow	3	1-2 Years
Generative AI	LLMs, Prompt Engineering, RAG	3	1 Year
DevOps & AIOps	Jenkins, GitHub Actions, CI/CD, Docker, Kubernetes	3	2-3 Years
Databases	SQL Server, MySQL	4	3-4 Years
Banking & Systems	Mainframe (JCL, COBOL), SWIFT, ETL Systems	4	3-4 Years
Tools & Platforms	ServiceNow, Linux, Git, WinSCP, Putty	4	3-4 Years

## Professional Experience

### INFOSYS

#### - Software Quality Engineer (Westpac Client)

June 2021 - Aug 2025

- Maintained business-critical banking and payment programs in SIT, UAT, and production environments and guaranteed high availability and compliance with SLA.
- Analysed and validated large data sets with SQL to aid in reconciliation, reporting and incident resolution.
- Automated and controlled batch and ETL workflows with Control-M, Informatica, and Azure Data Factory, enhancing the efficiency of operations and the reliability of data.
- Created interactive Power BI dashboards with DAX, Power Query, and data modeling to track incidents and defects as well as operational KPIs.
- Developed automation applications with Power Automate and Power Apps to automate business processes and minimize manual work.
- Conducted root cause analysis (RCA), regression testing and data verification, improved system performance and reduced defects by 30%.
- Introduced CI/CD pipelines and deployed/managed using Docker and Kubernetes to facilitate scalable deployments, and contributed to ML practices and MLOps through Python, MLflow, and Airflow.

## Education

### MSc in Data Analytics, National College of Ireland

Sept 2025 - Sept 2026

Modules: Data Analytics, Research Methods, Machine Learning, Statistics

### B.S. in Computer Science, SSR Degree college

June 2017 - sept 2020

## Projects

### Project 1: Mortgage Line of Business Platform

Client: Westpac

Technology/Tools: SQL, Power BI, Azure Data Factory, Control-M, Informatica, Power Apps, Power Automate, Dataverse, Mainframe (COBOL, JCL), ServiceNow

#### DESCRIPTION:

Supported and enhanced mortgage and banking applications by leveraging data analysis, ETL validation, process automation, and reporting solutions. Improved operational efficiency and ensured system reliability across SIT, UAT, and production environments.

#### Responsibilities:

- Examined large volumes of data through SQL to assist in reconciliation, reporting and correcting issues with mortgage and banking operations.
- Managed and automated batch processing workflows in Control-M and ESP in SIT, UAT, and production environments.
- Automated ETL with Informatica and Azure Data Factory, which guarantees a smooth data integration and data quality across systems.
- Designed Power BI dashboards and reports with drill-downs and filters and scheduled refresh to monitor defects,

- incidents, and operational KPIs
- Introduced Power Apps, Power Automate, and Dataverse-based solutions to implement workflows, automate approvals and centralize data management.
- Conducted root cause analysis (RCA), regression testing, and data validation to ensure system stability and minimize production problems.
- Sustained SWIFT payments systems and mainframes (COBOL, JCL) and established monitoring, alerts and health checks to maintain stable operations.

### **Project 2: Fraud Detection Dashboard**

**Client: Westpac**

**Technology/Tools: Power BI Desktop, MYSQL Database and Azure**

#### **DESCRIPTION:**

Designed a Power BI dashboard to monitor real-time fraud patterns and anomalies in transaction data. The dashboard helped identify potentially fraudulent activities, reduce financial losses, and improve fraud prevention measures.

#### **Responsibilities:**

- Combined and linked information in numerous data sources (SQL databases, Excel, flat files) by the use of Power BI and Direct Query mode.
- Implemented interactive Power BI dashboards with the help of DAX, custom visuals, and advanced data modeling to provide actionable insights.
- Build complex reports using drill-down, drill-through, filters, and KPI visualizations to aid the business analysis.
- Applied data transformations and data cleaning with Power Query and Azure Data Factory to maintain the quality and consistency of data.
- Coded optimized SQL queries, joins and stored procedures to meet data extraction and reporting specifications.
- Managed Power BI Service, such as report publishing, scheduled refresh with Data Gateway, and row-level security (RLS).
- Worked in collaboration with stakeholders and data engineers to understand the requirements and provide end-to-end reporting and analytics solutions.

### **Project 3: MLOps Pipeline & AI Model Deployment Platform**

**Client: Samsung E&A Arabia Company Limited**

**Technology/Tools: Python, Scikit-learn, TensorFlow, MLflow, Kubeflow, Apache Airflow, Docker, Kubernetes (EKS/AKS), AWS, Azure, FastAPI**

#### **DESCRIPTION:**

Developed and deployed scalable machine learning operations pipelines to automate machine learning model training, deployment and monitoring. Dedicated to creating reproducible workflows and implementing ML models in cloud-native settings, both to do real-time and batch inferences.

#### **Responsibilities:**

- Constructed end to end machine learning pipelines in Python (Pandas, NumPy, Scikit-learn, TensorFlow) to process data, perform feature engineering, train models, and evaluate them.
- Implemented MLOps workflows using MLflow to track experiments, version models and lifecycle.
- Design data and ML pipelines with Apache Airflow to provide consistency and reproducibility in automated workflows.
- Containerized ML models with Docker and deployed it on Kubernetes (EKS/AKS) to execute it on a large scale and with reliability.
- Established CI/CD pipelines based on GitHub Actions, Jenkins, and Azure DevOps to automate the model build, testing, and deployment.
- Implemented deployed ML models as REST API with FastAPI/Flask to infer and integrate into applications in real-time.
- Experienced with AWS (EC2, S3, SageMaker) and Azure ML, and studied model performance and LLM exploration, prompt engineering, and RAG-based solutions.

## **Certifications & Achievements**

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- **Microsoft Certified: Power Platform Developer Associate (PL-400)** – Demonstrated ability to design, develop and implement business solutions using Power Apps, Power Automate and Microsoft Power Platform.
- **Microsoft Certified: Power BI Data Analyst Associate (PL-300)** – Skilled in data modelling, visualization, dashboard development and delivering actionable business insights.
- **Microsoft Certified: Azure Data Fundamentals (DP-900)** – Understanding of core data concepts and Azure data services.
- **Microsoft Certified: Azure Database Administrator Associate (DP-300)** – Knowledge of database administration, performance tuning and security in Azure SQL.