

KOUSTAV PAUL

BI & Data Analytics Engineer

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PROFESSIONAL SUMMARY

Results-driven BI & Data Analytics Engineer with 4.5+ years of experience architecting enterprise data solutions across Microsoft Fabric, Power BI, and Azure. Proven expertise designing Enterprise Data Ontologies, building scalable pipelines, and deploying GenAI analytics utilizing Microsoft Copilot Studio, Microsoft Foundry, and autonomous Data Agents via Model Context Protocol (MCP) servers. Expert in advanced DAX, Python, T-SQL, and semantic modeling, transforming raw enterprise data into mission-critical executive architectures. Holds Microsoft certifications PL-300, DP-600, and DP-700.

TECHNICAL SKILLS

- GenAI & Agent Technologies:** Microsoft Copilot Studio, Microsoft Foundry, Model Context Protocol (MCP) Server, Microsoft Copilot (Fabric & Power BI), Custom Data Agents, Natural Language Querying (NLQ), Generative BI
- BI & Visualization:** Power BI (Desktop & Service), Microsoft Fabric, Azure Analysis Services, Executive Dashboards, Paginated Reports
- Data Ontology & Modeling:** Enterprise Data Ontology Design, Semantic Data Modeling, Star/Snowflake Schemas, Fact & Dimension Modeling
- Data Engineering & ETL:** Fabric Data Pipelines, Medallion Architecture (Lakehouse & Warehouse), Python, Data Transformation
- Cloud & Databases:** Azure Synapse Analytics, Azure Data Lake Gen2, T-SQL, SQL Server (SSMS), Relational Databases (RDBMS)
- Languages & Governance:** SQL, DAX, Python, Dynamic Row-Level Security (RLS), On-Premises Data Gateways
- Developer Tools:** DAX Studio, Tabular Editor, Power Query Editor, SSMS, Advanced Excel, Git

WORK EXPERIENCE

Embee Software Pvt. Ltd. | Kolkata, India

May 2022 – Present

Project 1: Enterprise Lakehouse & Medallion Analytics Platform

- Lakehouse Architecture & Pipelines:** Architected enterprise Medallion Lakehouses (Bronze/Silver/Gold) and Data Warehouses in Microsoft Fabric, orchestrating automated pipelines to ingest and process multi-source enterprise data reliably.
- Dimensional Modeling & SQL Optimization:** Designed star-schema models in SSMS/Fabric and optimized complex T-SQL views and stored procedures, accelerating report execution speeds by 45% and cutting database processing overhead.
- Security & Access Governance:** Configured Dynamic Row-Level Security (RLS) and managed On-Premises Gateways, securing role-based access and achieving 99.9% scheduled report refresh reliability.

Project 2: GenAI Autonomous Data Agent & Copilot Assistant Ecosystem

- Autonomous Agent Architecture:** Engineered and deployed custom Data Agents and conversational assistants using Microsoft Copilot Studio and Microsoft Foundry over Fabric semantic models.
- MCP Server & NLQ Integration:** Integrated Model Context Protocol (MCP) servers and AI-assisted data tools to connect LLMs securely with live analytical schemas, enabling non-technical leaders to execute Natural Language Queries (NLQ) and slashing dashboard delivery cycles by 35%.
- Enterprise Data Ontologies:** Designed structured Enterprise Data Ontologies unifying cross-departmental entities into an AI-ready single source of truth for reliable business analysis.

Project 3: Executive Intelligence & Advanced DAX Semantic Layer

- Advanced DAX Calculations:** Authored high-performance DAX measures for time intelligence, dynamic ranking, running totals, and strategic KPIs across enterprise semantic models, delivering flexible, sub-second analytics.
- Executive Reporting & Stakeholder Leadership:** Designed interactive, executive-grade Power BI dashboards aligned with C-suite KPIs; led discovery and UAT cycles delivering high-impact BI deliverables on schedule.

CERTIFICATIONS

- [Microsoft Certified: Fabric Data Engineer Associate \(DP-700\)](#)
- [Microsoft Certified: Fabric Analytics Engineer Associate \(DP-600\)](#)
- [Microsoft Certified: Data Analyst Associate \(PL-300\)](#)

EDUCATION

- Bachelor of Technology in Information Technology** | Techno India Salt Lake, Kolkata | Graduated: 2022 | CGPA: 7.99 / 10