

# Raj Kumar Manala

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## Summary:

Senior Data Engineer with 6+ years of experience designing and implementing complex ETL/ELT pipelines in the Microsoft Azure Ecosystem (Fabric, ADF, Synapse). Proven track record of optimizing data workflows, reducing latency, and ensuring high data quality for enterprise analytics. Expert in Data Modeling, Pipeline Monitoring, and performing root cause analysis to solve performance bottlenecks. Experienced in mentoring junior engineers and collaborating with cross-functional teams to deliver scalable technology solutions.

## Technical Skills:

- **ETL & Orchestration:** Azure Data Factory (ADF), Microsoft Fabric, dbt (Data Build Tool), Alteryx, SSIS, Azure Logic Apps.
- **Cloud & Storage:** Azure Data Lake Gen2, Snowflake, Azure SQL Database, Blob Storage, Cosmos DB, Delta Lake.
- **DevOps & Version Control:** Git, Azure DevOps, CI/CD Pipelines, GitHub (Addressing the "Source Control" requirement).
- **Integrations & CRM:** Salesforce (Directly requested), REST APIs, RPA (Power Automate), JSON/Parquet/XML processing.
- **Languages:** SQL (Advanced T-SQL), Python (Pandas, PySpark), PowerShell, Bash.
- **Data Modeling & BI:** Star/Snowflake Schema, Data Warehousing, Power BI, Tableau.
- **Core Competencies:** Pipeline Optimization, Root Cause Analysis, Mentorship, Agile/Scrum.

## Experience:

### Cloud Data Engineer

Concordia University Chicago

Aug 2023 – Dec 2025

Chicago, Illinois

- Designed and implemented complex data pipelines using Azure Data Factory and Microsoft Fabric, integrating data from diverse sources (APIs, SQL, Flat Files) into a centralized Data Lake.
- Optimized ETL/ELT workflows by implementing advanced data transformations and aggregations, reducing daily data refresh times by 40%.
- Configured pipeline monitoring and alerting systems using Azure Monitor, enabling proactive identification and resolution of performance issues.
- Collaborated with business stakeholders to define data modeling requirements, recommending storage solutions that supported fast and accurate analytical reporting.
- Automated data validation scripts to handle structured and unstructured data, ensuring 100% accuracy in downstream reporting.

### Senior Data Engineer

LTI Mindtree – Microsoft Vendor

Sep 2022 - Aug 2023

Hyderabad, India

- Led the migration of legacy data workflows to a modern cloud architecture using Azure Synapse and dbt, ensuring scalability and maintainability.
- Provided mentorship and guidance to junior engineers on SQL best practices, code reviews, and efficient data extraction techniques.
- Performed root cause analysis on failed pipelines and implemented long-term fixes, significantly improving system reliability and uptime.
- Developed custom logic for data transformation and cleansing, ensuring compliance with business rules and data governance standards.
- Partnered with the analytics team to design efficient data models (Star Schema) for high-performance dashboarding in Power BI.

### Data Engineer

Mindtree – Microsoft Vendor

Apr 2020 – Sep 2022

Mumbai, India

- Built and maintained robust ETL dataflows to ingest data from third-party APIs and Salesforce, loading it into staging environments for analysis.
- Worked with diverse data formats including delimited, fixed-width, and JSON, optimizing storage costs and access speeds in Azure Blob Storage.
- Implemented automated error handling and logging mechanisms within pipelines to streamline troubleshooting and operations.
- Participated in daily stand-ups and sprint planning, translating business requirements into technical specifications for data engineering tasks.

## Education:

### Master of Science in Computer Science

Concordia University Chicago | River Forest, IL, USA

December 2025

GPA: 3.69/4.0

### Bachelor of Technology in Electronics & Communication

Swami Vivekananda Institute of Technology | Hyderabad, TS, India

April 2020

Grade: First

## Certifications:

- **Microsoft Certified:** [Azure Data Engineer Associate \(DP-203\)](#)
- **Microsoft Certified:** [Power BI Data Analyst Associate \(PL-300\)](#)
- **Microsoft Certified:** [Azure AI Fundamentals \(AI-900\)](#)
- **Microsoft Certified:** [Azure Fundamentals \(AZ-900\)](#)
- **Microsoft Certified:** [Azure Data Fundamentals \(DP-900\)](#)