

Manoj Chilukuri

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Professional Summary

Analytics Developer with 5+ years of experience in data engineering and analytics solutions. Proficient in Azure Data Factory, Azure Databricks, Power BI, and ETL pipelines with strong skills in PySpark and SQL. Proven ability to design and orchestrate scalable data pipelines, ensure high data quality, and deliver insightful dashboards that drive business decisions. Adept at integrating Databricks and Power BI for real-time analytics and business intelligence.

Technical Skills

- **Databricks:** Databricks Notebooks, Databricks SQL, PySpark, Cluster Management, Auto-Scaling, Cost Optimization
 - **Power BI:** Dashboard Development, DAX, Power Query, Data Modeling, RLS, Data Masking, Workspace Configuration
 - **ETL/ELT:** Azure Data Factory (ADF), Informatica, Talend
 - **Languages:** Python, SQL
 - **Databases:** Azure SQL, SQL Server, Oracle, MySQL
 - **Cloud Platforms:** Microsoft Azure (ADF, Databricks, ADLS, Azure SQL)
 - **Other Tools:** Git, Linux, Windows, Azure Key Vault
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Professional Experience

Software Engineer | Omnisoft Systems Private Limited | Jan 2024 – Present

- Built and optimized ETL pipelines using ADF and Databricks for real-time and batch data processing.
- Developed PySpark scripts for data preprocessing and data quality validations in Databricks.
- Integrated Databricks with Power BI to deliver real-time dashboards.
- Worked on Databricks cluster optimization and cost management.
- Designed and published Power BI reports and dashboards for internal stakeholders.

Data Engineer | DeepFacts Private Limited, Hyderabad | Jan 2021 – Nov 2023

- Created ADF pipelines to move data to Azure Blob and ADLS.
- Built PySpark scripts for data transformation and cleansing.
- Managed SQL Server databases and implemented secure access through RBAC and Azure Key Vault.
- Contributed to Power BI model design and development for internal business use.

System Engineer | Flowtronics Private Limited, Hyderabad | Jul 2019 – Dec 2020

- Designed SQL scripts and stored procedures to support application development.
- Improved query performance through tuning and indexing.
- Interacted with clients for data analysis and troubleshooting.

Education

B.Tech in Electronics and Communication Engineering

Jawaharlal Nehru Technological University, Kakinada | 2019

Projects

Project 1: Retail Analytics Platform

Technologies: Azure Data Factory, Azure Databricks, Power BI, SQL, PySpark

- Built robust ADF pipelines to ingest and orchestrate data from multiple retail systems.
- Developed PySpark notebooks in Databricks for customer segmentation and sales insights.
- Managed cluster auto-scaling to optimize cost and performance.
- Delivered Power BI dashboards with DAX for product performance tracking.

Project 2: Healthcare Data Lake Solution

Technologies: ADF, Databricks, Power BI, Azure SQL

- Consolidated EHR and insurance claim data using Azure Data Factory.
- Used Databricks notebooks for preprocessing and anomaly detection.
- Created secure Power BI dashboards with RLS for compliance reporting.

Project 3: Banking Compliance and Risk Dashboard

Technologies: Databricks, Power BI, ADF, SQL

- Built data pipelines to process KYC and transaction data for AML analysis.
- Applied DAX and Power Query to model high-risk entity behavior in Power BI.
- Optimized SQL queries and used data masking techniques for regulatory compliance.

Project 4: Manufacturing Intelligence System

Technologies: Azure Databricks, ADF, Power BI, Python

- Integrated machine sensor data and ERP logs through ADF pipelines.
- Created Databricks scripts to calculate MTTR, downtime, and yield metrics.
- Built live dashboards in Power BI for operational monitoring with alert triggers.

Project 5: eCommerce Data Integration & Analytics

Technologies: ADF, Databricks, Power BI, SQL Server

- Orchestrated daily data ingestion from transactional DBs and clickstream logs.
- Developed Databricks notebooks for sales funnel and conversion analysis.
- Designed star schema models and interactive Power BI reports for leadership.

Project 6: Insurance Claims and Fraud Detection

Technologies: Azure Data Factory, Azure Databricks, Power BI, PySpark

- Ingested and transformed high-volume claims data with ADF and Databricks.
- Applied PySpark-based feature engineering for fraud pattern detection.
- Delivered Power BI dashboards with drill-downs for fraud investigation teams.