

## Akash Ramsingh Singh

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### SUMMARY

Experienced Data Engineer with over 7 years of expertise in designing and optimizing scalable data pipelines using **Azure Data Factory, Databricks (PySpark), and Azure Synapse**. Proven track record in automating **ETL processes, enhancing data quality, and enabling enterprise-wide reporting** through Power BI. Holds a **Master's in data Analytics** and multiple **Microsoft Azure certifications**, demonstrating a commitment to continuous learning and excellence in data engineering practices.

### WORK EXPERIENCE

#### Expleo

*Senior Developer*

**Dublin, Ireland**

*April 2022 - Present*

- Automated workforce-data migration by writing advanced SQL routines (window functions, CTEs), eliminating manual Excel steps and reducing data-entry errors.
- Created Azure ADF pipelines that merged data from three L&D systems into Synapse, giving the business one trusted source.
- Implemented robust data transformations and quality checks within Azure Data Factory, utilizing Mapping Data Flows to cleanse, standardize, and enrich data before loading into Azure Synapse.
- Contributed to the implementation of end-to-end monitoring and alerting for data pipelines by integrating Azure Monitor and Log Analytics, improving incident detection and operational visibility.
- Engineered data models in Azure Synapse to support downstream reporting needs, enabling Power BI developers and analysts to build insightful dashboards for learning and development initiatives.
- Extracted, transformed, and loaded large-scale datasets from Oracle, SharePoint, and AWS into Azure SQL using Azure Data Factory and Azure Databricks, employing PySpark and SparkSQL to standardize and structure raw inputs.
- Developed Databricks Notebooks in PySpark to process multi-format files (CSV, JSON, Parquet), performing complex joins, filters, and aggregations to prepare data for analytical use in Azure Synapse.
- Improved Spark job performance by optimizing partitioning strategies and leveraging broadcast joins, leading to significantly faster pipeline execution and better resource utilization in the Databricks environment.
- Designed and developed interactive Power BI dashboards, transforming complex datasets into actionable insights for business users; published and managed reports via Power BI Service, enabling enterprise-wide access to KPIs and metrics.
- Created data models and DAX measures to support self-service analytics, optimizing report performance and enabling users to drill down into trends, anomalies, and operational efficiency metrics.
- Integrated Power BI with Azure Synapse and SQL data sources, automating data refresh schedules and maintaining row-level security (RLS) for secure and dynamic reporting across business functions.

#### Accenture

*Application Development Analyst*

**Mumbai, India**

*Jan 2019 - Dec 2020*

- Engineered scalable data migration frameworks using Ab Initio, enabling seamless integration between legacy systems and Oracle databases and streamlining end-to-end data ingestion processes.
- Developed and maintained complex Oracle SQL scripts for data transformation, cleansing, and validation, ensuring high accuracy and consistency across production datasets.

- Implemented Slowly Changing Dimension Type 2 (SCD2) logic in ETL pipelines to capture historical changes in dimension tables, supporting accurate time-based reporting and business-intelligence use cases.
- Integrated data from multiple heterogeneous sources—including on-premise databases and external flat files—reducing data refresh cycles from weekly to daily and enhancing data timeliness for reporting teams.

## Capgemini

Senior Analyst

Mumbai, India

March 2016 - June 2018

- Tuned Oracle SQL queries to speed up daily ETL jobs and reports.
- Managed Ab Initio workflows to move data from operational systems into the warehouse.
- Worked with business and QA teams to document transformation rules and create test cases for reliable reporting.

## SKILLS

**Programming & Scripting:** Python (PySpark, pandas), SQL, Bash

**Data Processing & Big Data:** Apache Spark, Delta Lake, Databricks, Kafka (basics)

**Cloud Platforms & Data Warehousing:** Azure (ADF, ADLS Gen2, Synapse, Databricks, Purview, Monitor), Snowflake

**Orchestration & Infrastructure as Code:** Airflow, Azure Data Factory, Terraform, GitHub Actions

**Databases:** Oracle, SQL Server, Azure SQL, PostgreSQL, NoSQL (Cosmos DB, DynamoDB basics)

**DevOps & Containerization:** Docker, CI/CD (Azure DevOps, GitHub Actions)

**Data Governance & Quality:** Great Expectations, Data Contracts, SCD Type 2, Row-Level Security (RLS)

**Business Intelligence & Visualization:** Power BI, Tableau

## EDUCATION

National college of Ireland

Master Of Science in Data Analytics

Dublin, Ireland

2021 -2022

Vidyavardhani College Of Engineering and Technology

Bachelor of Technology in Information Technology

Mumbai, India

2011 -2015

## CERTIFICATIONS

ICAgile Certified Professional

Microsoft Certified: Power BI Data Analyst Associate PL 300

Snowflake: SnowPro Core COF-C02

Microsoft Cloud: Azure Data Engineering Associate DP 203

Microsoft Cloud: Azure Data Fundamentals DP 900

Microsoft Cloud: Azure Fundamentals AZ 900