Abhinav Sreesan

Senior Data Engineer

abhinavsreesancp@outlook.com | 9167272564 | Mumbai

Experienced Data Engineer with 6.5 years of experience in designing, developing and managing Data Platforms on Azure.

EXPERIENCE

Neudesic Technologies (Remote)
Senior Data Engineer   December 2021 - Present

Command and Control Data platform for a Leading Indian Cement Manufacturer

The goal of the engagement was to deploy a data platform that was architected on **Azure Synapse** with **Pipelines** orchestrating various stages of data ingestion and transformation journey. It ingested data from diverse sources like SAP CDC connectors for enterprise data, API sources for plant monitoring data, SFTP sources for manual business estimates all combined into a unified data model using Pyspark based Notebooks running on a Databricks **Spark Pool**.

- Engaged with Business stakeholders to understand the current process across business functions like **manufacturing, sales, logistics** etc to create a tailored **data model**.
- Designed and built a **Command and Control** application processing data across **30+ manufacturing plants** to provide stakeholders with 40+ comprehensive KPIs with drill-down capabilities.
- Leading a team of three Data Engineers and one Analytics Engineer to deliver the pilot project with an initial set of over **40 critical KPIs** within the first month of the engagement and onwards.
- Implemented a metadata framework using a NoSQL **Cosmos DB** instance with a Serverless **Azure function** as an interface to handle the source data configuration, scheduling and logging of the data pipelines.
- Created an extensive **Data quality and integrity monitoring framework** in Synapse monitoring deviations from configured benchmarks with full support for alerts and escalations.
- Configured CICD for Synapse components, Cosmos DB and Azure functions that allowed for a seamless delivery pipeline on Azure Devops pipelines.
- Contributed to the design of the custom **Row Level Security** framework that allowed admins to grant fine grained access to various users from unrestricted access to executives to a much more constrained plant level access to plant leadership.

Data Platform Leading IT infrastructure Provider

The project was to set up a data platform that allowed business stakeholders to monitor incident resolution time for service requests and analyze metrics impacting Turn Around Time of requests.

- Set up a pilot project where we evaluated the efficacy of **Delta Live Tables** with Auto-loader offering from Databricks to serve as the bronze and silver layer of the data lake.
- Contributed to development of a Data ingestion and processing framework on **Azure Data Factory** and **Databricks** based on the POC.

In House Data Platform Accelerator

The accelerator enabled the seamless deployment of a data platform based on user inputs; the core resources like **Data Factory** or **Synapse** for orchestrations, **Databricks** for transformation, Storage Account for the Blob storage were deployed and set up with generic templates that can be built upon as per the business use case.The process offered deployment using Github Actions, Azure Devops Pipelines and Terraform templates.

- Optimized deployment pipelines, reducing configuration time by 60% by reducing user touch points and enabling automation through Github actions, Azure Devops and Terraform.
- Evaluated and implemented the feature to host the metadata database as **Delta tables**, providing an alternative to the existing Azure SQL database for storing source configurations and event logs decoupling the storage and compute layers.
- Built a POC on **Delta Catalog** as an offering in the Data Platform to enhance data sharing and finer control on the RBAC to reduce the overhead created by the existing Storage Account based RBAC.

Tata Consultancy Services, Mumbai
Data Engineer   November 2018 - December 2021
- Built **Azure Data Factory** pipelines with **Azure SQL Server** as a data warehousing solution, enabled build pipelines in **Azure Devops** to enable a seamless deployment from ground up for the Business Intelligence Platform.
- Organized and conducted frequent Knowledge sharing sessions to help stakeholders understand the different aspects of the project. Mentored new associates to advance their skills and help them improve their contribution to the project.

CERTIFICATIONS
- **[Databricks Certified Data Engineer Professional](#)** (Feb'2024)
  Certification to perform advanced data engineering tasks using Databricks.
- **[DP-700 Microsoft Certified: Fabric Data Engineer Associate](#)** (Jul'2025)
  Certification to design and implement Data Solutions on Microsoft Fabric
- **[DP-201 Designing an Azure Data Solution](#)** (Jan'2021)
  Certification to design an Azure Data solution to efficiently process data.
- **[DP-200 Implementing an Azure Data Solution](#)** (Feb'2020)
  Certification for implementing an end-to-end data solution in azure to ingest, process and load data from multiple sources.

TECHNICAL SKILLS
- **Technologies**: Azure Synapse, Azure Data Factory, Databricks, Snowflake, Azure Storage Account, Azure Data Lake, SQL, Python, Azure Devops, Github Actions.
- **Techniques**: Data Pipeline Design, Database Modelling.
- **Expertise Areas**: Designing Data Pipelines, Data Wrangling, Data Normalisation, CI/CD.

ACADEMIC ACHIEVEMENTS
- **[Technical Paper Publication (2019)](#)**
  Published a paper in the bimonthly international journal HELIX on the topic of 'Machine Learning Based Autonomous Road Maintenance System Using Cold Lay Asphalt'. Published in Helix Vol. 8(5): 4002- 4006.

EDUCATION
University of Mumbai, Mumbai
Bachelor of Engineering – Electronics and Telecommunication   June 2018
CGPA - 7.94/10