Asis Jovin A B.Tech, Artificial Intelligence And Data Science

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Result-oriented Data Science professional with experience delivering data-driven solutions across healthcare, business, and service domains. Skilled in predictive modeling, statistical analysis, and data visualization to support strategic decision-making. Proficient in Python, SQL, and scalable workflows with exposure to Azure and Databricks. Demonstrated expertise through published medical data science research, Elsevier contributions, and real-world projects like ChronicCare, Drive Rescue, and RoomSync. Recognized at a national hackathon for developing an impactful food donation app, with a strong ability to convert complex datasets into actionable insights.

Primary Skill
Azure Data Factory
Docker
Data WareHouse
Azure Data Engineering
Databricks
DeltaLake

Secondary Skill

Programming

Language
Python, PySpark, SQL

EDUCATION
2021-2025
B.Tech - Artificial Intelligence And Data Science
(Karpaga Vinayaga College Of Engineering and Technology,Chennai)

CERTIFICATE COURSE
Azure Data Engineering - UDEMY

Project Experience:

1.Real-Time Sensor Failure Prediction (Manufacturing Analytics)

- Built end-to-end ETL pipelines in Azure Data Factory (ADF) and Databricks (PySpark) for ingesting wafer sensor data.
- Implemented streaming data pipelines for real-time monitoring, applying windowing functions and anomaly detection.
- Designed data models and stored curated data in Azure Data Lake Storage for scalable access.
- Developed predictive ML pipeline to forecast equipment failures, integrated with Power BI dashboards for live monitoring.

2. Insurance Data Lake & Claims Processing

- Designed a Data Lake architecture on Azure to consolidate structured and unstructured insurance data (claims, policies, customer documents).
- Created data ingestion pipelines using ADF and Databricks for batch and streaming data.
- Implemented data quality checks, schema validation, and lineage tracking for compliance.
- Built curated Delta Lake tables optimized for query performance in Databricks SQL, reducing processing latency by 30%.

3. Retail Sales Data Warehouse & Analytics

- Developed ETL workflows to extract data from on-prem SQL Server, transform in Databricks (PySpark), and load into Azure Synapse Analytics.
- Applied incremental data loading and partitioning strategies to optimize refresh times.
- Built semantic models and connected Power BI for sales forecasting and trend analysis.
- Enabled stakeholders to access interactive dashboards with KPIs on sales, inventory, and regional performance.

4. Healthcare Data Integration for ChronicCare App

- Designed a data pipeline to ingest patient health data (CSV, JSON, API) into Azure Data Lake Storage.
- Built ETL workflows in Databricks for data cleaning, feature engineering, and standardization of multimodal datasets (numerical + text).
- Stored processed datasets in Delta Lake for efficient retrieval in predictive models.
- Integrated Azure ML for downstream analytics and reporting of patient health insights.

5. Food Donation Analytics Platform (Hackathon Project)

- Implemented a scalable pipeline to process real-time donation and request data using Databricks and Kafka.
- Designed schema in Azure SQL Database to track donations, NGO requests, and logistics.
- Built ETL jobs to generate insights on surplus food availability, matching donors with NGOs efficiently.
- Reduced food wastage by optimizing matching algorithm with data-driven insights.

PERSONAL DETAILS

Nationality: Indian

ADDRESS

445 G type-1Quatres Block-29 Neyveli-7 607807

WORK EXPERIENCE

Data Analyst – Prowesstics, Chennai

(JUL 2022 – AUG 2022)

- Designed and developed ETL pipelines for ingesting structured/unstructured data from diverse sources (APIs, SQL databases, flat files) into cloud storage and data warehouses.
- Performed data preprocessing, cleansing, and validation using Python, SQL, and PySpark to ensure high-quality datasets for analytics.
- Built and optimized data transformation workflows in Databricks, applying partitioning, caching, and Spark optimization techniques to reduce processing time.
- Created interactive dashboards and reports in Power BI for business users, delivering insights on operations, performance metrics, and forecasting.
- Implemented data quality checks, exception handling, and error logging to monitor data pipelines and improve reliability.
- Collaborated with cross-functional teams to translate business requirements into data models, KPIs, and visualization solutions.
- Automated manual data processes, reducing turnaround time for reporting and freeing analyst hours for deeper insights.
- Conducted exploratory data analysis (EDA) and statistical modeling to support decision-making in key client projects.

Data Engineer – Boston Nex Tech, Chennai

(JAN 2025 - SEPT 2025)

- Designed and maintained ETL pipelines in ADF & Databricks, integrating data from multiple sources into Azure Data Lake & Synapse.
- Implemented Delta Lake architecture for schema evolution, faster queries, and scalable storage.
- Built real-time streaming pipelines and automated data validation checks in PySpark.
- Developed reporting workflows by connecting processed datasets to Power BI dashboards.
- Collaborated with teams for requirement analysis, troubleshooting, and deployment of data solutions.

I hereby declare that the above-mentioned details are true to the best of my knowledge.

Place: Chennai   **Yours Sincerely**

Asis

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