Asis Jovin A

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Aspiring Data Science professional seeking opportunities to apply expertise in 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. Built a strong foundation through published medical data science research, Elsevier contributions, and practical projects such as ChronicCare, Drive Rescue, and RoomSync. Recognized at a national hackathon for creating an impactful food donation app, with a proven ability to translate complex datasets into actionable insights.

Primary Skills

Machine Learning, Deep Learning(ANN,RNN,CNN) PyTorch, TensorFlow, HuggingFace, Scikit learn, Databricks, Azure Data Factory, Delta Lake, Docker, Azure Synapse, Azure devops

Programming Languages

PySpark, SQL, Pandas, Power BI, AzureSynapse Analytics, Git, MLflow, Numpy, Matplotlib, Seaborn

EDUCATION

2021-2025

B.Tech - Artificial Intelligence And Data Science

(Karpaga Vinayaga College OfEngineering and Technology,Chennai)

CGPA : 7.6

CERTIFICATION:

Azure Data Engineering

INTERNSHIP EXPERIENCE:

Data Engineer – Boston Nex Tech, Chennai
Jan 2025 – Sept 2025

- Designed and deployed end-to-end data pipelines in Azure Data Factory & Azure Databricks, preparing large structured and unstructured datasets for machine learning workflows.
- Implemented Delta Lake architecture to support ML feature store, schema evolution, and faster model training queries.
- Developed real-time streaming pipelines and automated data validation checks, ensuring high-quality datasets for ML model training and evaluation.
- Collaborated with the AI/ML team to perform exploratory data analysis (EDA) using Python, pandas, polars, and PySpark, extracting insights to guide feature engineering.
- Applied CI/CD with Azure DevOps and Git to operationalize ML-ready pipelines, ensuring reproducibility and scalable deployment. Followed Agile and SDLC methodologies throughout the project lifecycle, from requirements gathering to deployment.

Environment: Azure Data Lake, Azure Synapse, Azure Databricks, Delta Lake, Azure Data Factory, Azure DevOps | Python, SQL, PySpark, pandas, polars, scikit-learn, Docker, Git | Power BI,MS- EXCEL, Powerpoint |SDLC| ANN,CNN,RNN

Data Analyst – Prowesstics, Chennai
Jul 2022 – Aug 2022

- Performed EDA and preprocessing on large datasets (APIs, SQL databases, flat files) using Python, pandas, scikit-learn, and PySpark to enable predictive modeling and forecasting.
- Built feature engineering pipelines in Azure Databricks, applying partitioning, caching, and optimization to accelerate ML workflows.
- Supported machine learning experiments by preparing training/test datasets, validating models, and documenting results for reproducibility.
- Developed interactive dashboards in Power BI integrated with Azure services, providing insights for business decision-making and predictive analytics.
- Ensured data quality, exception handling, and logging within ADF pipelines, enabling reliable AI/ML solution deployment.
- Automated workflows with Azure DevOps CI/CD, ensuring smooth ML pipeline updates and deployments. Applied Agile and SDLC best practices to manage the analytics lifecycle and ensure structured delivery.

Environment: Azure Data Lake, Azure Synapse, Azure Databricks, Azure Data Factory, Azure DevOps | Python, SQL, PySpark, pandas, scikit-learn, dask | Power BI, MS-EXCEL, Powerpoint|SDLC|ANN,CNN,RNN

PERSONAL DETAILS

Nationality: Indian

ADDRESS

445 G type-1Quatres
Block-29 Neyveli-7
607807, Cuddalore,
TamilNadu

Project Experience:

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

Built end-to-end ETL and real-time streaming pipelines in Azure Data Factory (ADF) and Azure Databricks (PySpark) to ingest wafer sensor data, design scalable data models in Azure Data Lake Storage, implement predictive ML pipelines for equipment failure forecasting, and visualize insights in Power BI.

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 ofmultimodal datasets (numerical + text).
- Stored processed datasets in Delta Lake for efficient retrieval in predictive models.
- Integrated Azure ML for downstream analytics and reporting ofpatient health insights.

5. Food Donation Analyticzs 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 ETLjobs to generate insights on surplus food availability, matching donors with NGOs efficiently.
- Reduced food wastage by optimizing matching algorithm with data-driven insights.

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

Place: Chennai

Yours Sincerely
ASIS JOVIN A