Bharath Raavi (Certified Azure Data Engineer)

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Education

Saint Peter's University | **Sep2023- Feb 2025**
MS in Business Analytics – GPA: 3.89 | Jersey City, New jersey

Skills

SQL | Python | PySpark | Azure Machine Learning | AutoML | MLOps | Azure Data Factory | Azure Databricks | MLflow | Azure Kubernetes Service (AKS) | Azure DevOps | Azure IoT Hub | Azure Event Hubs | Azure Stream Analytics | Azure Data Lake | Azure Cognitive Services | Power BI | Azure Logic Apps | Anomaly Detection | Feature Engineering | Cloud Computing | Data Transformation | Machine Learning | Data Integration | Data Validation | Query Optimization | Data Warehousing.

Professional experience

Project Engineer| Wipro Pvt Ltd | March 2021- September 2022

As a Project Engineer at Wipro, I played a key role in designing, developing, and optimizing data pipelines to support data-driven decision-making. I collaborated closely with cross-functional teams to architect scalable data solutions that aligned with business objectives.

- Data Engineering & Pipelines: Built and optimized end-to-end data pipelines using SQL, Python, and ETL tools to ensure seamless data ingestion, transformation, and delivery.
- Data Warehousing & Integration: Designed and maintained data warehousing solutions using Snowflake, Oracle, and SQL Server, implementing Informatica, Alteryx, and DataStage for robust data integration.
- Business Intelligence & Reporting: Developed interactive dashboards and reports using Power BI, Tableau, Cognos, and Tableau Prep, enabling stakeholders to extract actionable insights.
- Cloud & Big Data Technologies: Worked on cloud-based data architectures, leveraging Azure and other modern cloud platforms to ensure scalability and efficiency in data processing.
- Automation & Performance Optimization: Automated data pipelines and ETL workflows using Python and workflow orchestration tools, improving processing time and efficiency.
- Cross-Team Collaboration: Partnered with business analysts, data scientists, and product managers to define data strategies, analyze reporting needs, and implement solutions that improved decision-making.
- Problem-Solving & Troubleshooting: Diagnosed and resolved data anomalies, performance issues, and integration challenges, ensuring high data integrity and availability.

Student Volunteer | Saint Peter's University | September 2024 - November 2024

- Led sessions to guide students in improving their SQL query skills.
- Provided hands-on support and facilitated lessons, contributing to higher student engagement and improved project outcomes.

Independent Projects

End-to-End ML Pipeline with Azure AutoML & MLOps

- Build & deploy a scalable ML pipeline using Azure ML, AutoML, and MLOps.
- Ingest & transform data using Azure Data Factory (ADF) & Azure Databricks (PySpark).
- Train models with Azure AutoML, track using MLflow, and deploy via Azure Kubernetes Service (AKS).
- Automate retraining & deployment with Azure DevOps CI/CD pipelines.

Anomaly Detection in IoT Sensor Data

- Objective: Detect anomalies in IoT sensor data using Azure Stream Analytics & AI Services.
- Stream IoT data from Azure IoT Hub to Azure Event Hubs.
- Process real-time data with Azure Stream Analytics & store it in Azure Data Lake.
- Train an anomaly detection model using Azure ML & deploy via Azure Cognitive Services.
- Visualize alerts in Power BI, trigger notifications via Azure Logic Apps.

Movie Recommendation System Using Collaborative Filtering:

- Collected and processed over 1 million movie ratings from Movie Lens Using Python and SQL.
- Built a collaborative filtering model with Scikit-learn and Apache Spark, improving RMSE accuracy by 15% and enhancing user satisfaction by 25%.
- Developed interactive dashboards in Power BI to visualize recommendations, resulting in 40% higher user engagement.

Certifications

Microsoft Azure: Certified Azure AI Engineer Associate, Certified Azure Data Engineer Associate
Hacker rank: SQL(Advanced) , SQL(Intermediate)
Forage: PWC Power BI Job Simulation, Accenture Data Analytics and Visualization