Surya Aravind Maddula

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EDUCATION

University of New Haven | Master of Business in Analytics   **08/2022 - 12/2023**

BML Munjal University | Bachelor in Computer Science Engineering   **08/2015 -08/2019**

TECHNICAL SKILLS

Analytical Tools: Power BI, Microsoft Excel (Pivot tables, VLOOKUP, XLOOKUP, Data Validation), Tableau

Programming Languages: Python, R, React JS, Java, Node.Js, Redux, Selenium, Pyspark Kafka, Scala, Spark.

Tools: Version Control (Git), Bit Bucket, LaTeX, Dialog Flow.

Data Processing Tools: Apache Airflow, Databricks

Machine Learning: Regression, Classification, Forecasting, Clustering.

Cloud Services: AWS services, Azure

Databases: SQL, Relational database, AWS S3, Athena.

Project Management Tools: Jira, Workday.

WORK EXPERIENCE

TechNForce   **01/2023 – Present**
Business Analyst

- Designed and implemented scalable data solutions, converting raw data into actionable insights for business teams.
- Developed Spark-based data pipelines in Scala to integrate sales data, product details, and user behavior analytics into a centralized data warehouse.
- Developed ETL processes and data pipelines within cloud environments like AWS, efficiently processing large volumes of data from diverse sources.
- Optimized SQL queries and data models for critical business applications, improving performance and reducing query execution times.
- Led projects focused on data extraction and manipulation, employing SQL and Python to derive valuable insights from extensive datasets.
- Provided data-driven insights to enhance campaign performance and support strategic decision-making processes.
- Managed cross-functional teams to ensure timely project delivery, collaborating closely with stakeholders to capture business requirements and translate them into effective technical solutions.
- Automated data workflows and processing using Python, SQL, and various cloud services.
- Collaborated with data scientists to deploy Scala-based machine learning models into production, enabling predictive analytics for customer behavior and product demand forecasting.

Asteriisc   **09/2020 – 04/2022**
Data Engineer

- Led sprint planning and issue tracking using Jira, managing backlog prioritization, creating dashboards for tracking key performance indicators (KPIs), and ensuring project milestones alignment in data analytics initiatives.
- Integrated Python and Scala scripts for data manipulation and analysis, leveraging the strengths of both languages to streamline workflows and enhance computational efficiency.
- Utilized Apache Spark with Scala and PySpark for complex data transformations, aggregations, and large-scale distributed data processing, optimizing job performance and reducing processing time.
- Led data visualization efforts using Angular, ReactJS, HTML, SCSS, Redux, and NodeJS, contributing to 70% of the overall process and creating intuitive visual representations.
- Developed a user-friendly Admin panel for efficient management of food listings, orders, and user accounts, optimizing application performance with server-side caching and load-balancing.
- Integrated AWS services, including S3, EC2, and RDS, for secure storage, cloud infrastructure management, and database solutions, ensuring high availability and scalability.
- Designed automated backup and recovery processes for AWS RDS databases, developed robust ETL scripts, and optimized database performance using Python.
- Engineered data workflows using Apache Spark and Scala for real-time data processing, ensuring efficient handling of streaming data and complex operations
- Conducted statistical analysis with SQL, Python, Scala, R, and Excel to provide data-driven insights for business decisions

DataWeave   **11/2019 – 08/2020**
Data Engineer

- Engineered frameworks for automating and maintaining a consistent data flow from multiple sources, increasing data accessibility by 20%.
- Collaborated on ETL (Extract, Transform, Load) tasks, maintained data integrity, verified data pipelines, and improved operations by 30%.
- Designed and managed scalable data pipelines, developing and maintaining new API integrations to handle a 10% increase in volume.
- Worked with diverse data formats, including Parquet, JSONL, and CSV, ensuring efficient data storage and retrieval for analytics and reporting.
- Experience automating reports using Apache Airflow and Python, driving efficiency and scalability in data workflows.
- Implemented and optimized data pipelines for high-volume data processing, ensuring timely data availability for stakeholders.
- Regularly communicated project progress and challenges to stakeholders through structured reports and meetings, fostering strong relationships and setting clear expectations.
- Identified potential project risks and implemented strategies to mitigate them, ensuring that project delivery was not hindered by unforeseen challenges.

Pike Solutions   **01/2019 - 06/2019**
Data Engineering Intern

- Implement data transformations and business logic using Python, ensuring accurate and efficient data processing...
- Developed custom Python modules and libraries to enhance data engineering workflows and automate repetitive tasks.
- Collaborate with analysts and stakeholders to translate business requirements into effective SQL queries and data solutions.

PROJECTS

Nord Storm

Data Collection and Automation:

- Used Python and Selenium to crawl data from e-commerce sites for specific zip codes and times.
- Managed tasks and dependencies with Apache Airflow to automate data collection.

Data Storage and Querying:

Store data in Amazon S3 buckets and queried data using AWS Athena and generated business reports.

Real-Time Monitoring:

- Monitored real-time data with Kafka and Kibana.

Analytics and Data Management:

- Applied machine learning for brand analytics to identify products across e-commerce sites.
- Designed and managed scalable data pipelines, developed and maintained API integrations, and ensured data integrity through ETL processes.

CERTIFICATIONS
Azure Data Engineer Associate
Aws Certified Solution Architect