Bhargava Reddy

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SKILLS

Programming and Scripting Languages:
- Python
- Scala
- Shell Scripting
- SQL

Big Data Technologies and Data Engineering:
- Databricks
- Spark & Spark Streaming
- Kafka
- Apache Solr
- Presto
- Apache Airflow
- Postgres

Cloud Computing Platforms:
- Azure Services (Data Lake, Azure Data Factory, Synapse, Azure DevOps, Azure Apps, etc.)
- Amazon Web Services (S3, EC2, SageMaker, Amazon FeatureStore, Athena, etc.)

DevOps and Automation:
- Docker
- Kubernetes
- Jenkins
- Ansible
- Git
- MLOps

Web Development:
- HTML
- CSS
- JavaScript
- Django
- FastAPI
- D3.js

Machine Learning and Natural Language Processing:
- Azure CLU (NLP)
- Amazon SageMaker

Data Visualization:
- PowerBI

EDUCATION

JAIN UNIVERSITY
Bachelor of Technology: in Electronics And Communications Engineering
Aug 2018 | Bangalore

EXPERIENCE

5+ years of diverse experience in Data Engineering, Data Visualization and product development in Retail, CPG and Automotive industries.

MATHCO (FORMERLY THEMATHCOMPANY) | TECHNICAL LEAD
November 2022 - Present | Bengaluru, India

- Led and architected the development of data platforms using a multi-semantic layers in AWS and Azure, utilizing Databricks and Unity Catalog . Designed and implemented common data models for diverse use cases.
- Built adaptable Data Quality Framework leveraging Spark, Pandas, and SQL for tailored user preferences in data processing and warehouse management.
- Successfully executed critical optimizations on tables using H3 spatial indexing, bucketing, and partitioning, achieving a 90% reduction in computation time and significantly enhancing system efficiency.
- Led the development of an advanced NLP-enriched chatbot. Utilized Azure CLU for enhanced conversational language understanding, integrated with a FastAPI backend and React frontend, to accurately interpret user queries and deliver detailed responses, including text and data visualizations.
- Led a team in implementing the MLOps deployment cycle, utilizing Feature Store, SageMaker, and Airflow, streamlining the machine learning workflow.
- Implemented ETL (Extract, Transform, Load) workflows to efficiently extract data from Workday, ServiceNow, and Beeline APIs.
- Implemented full automation for ETL flows and DevOps processes, seamlessly transitioning data engineering solutions and product developments from development to production environments.

FRACTAL ANALYTICS | DATA ENGINEER
March 2021 – November 2022 | Bengaluru, India

- implemented a statistical model in Spark to identify at-risk projects using various categorical and continuous factors, in collaboration with the behavioral science team. This enabled clients to proactively focus on impacted projects, with detailed insights into the factors affecting project health.
- Led the migration of ETL scripts from Qlik to Azure Databricks, utilizing Azure Delta Lake and Azure Data Factory (ADF).
- Worked closely with stakeholders and business consultants to develop a comprehensive one-stop data platform, modeling multiple semantic layers to cater to diverse data requirements

PRIMENUMBERS TECHNOLOGIES | Member of Technical Staff
April 2018 – march 2021 | Bengaluru, India

- Developed a Python-based data extraction framework, which crawl more than 3000 websites daily. Built with a Django admin frontend, Selenium, and PostgreSQL, it allows rapid website addition via UI for crawling. Deployable using Kubernetes, the framework crawls 90% of data required for data analytics platforms in the company.
- developed data pipelines using python.
- Developed both backend and frontend components for analytics dashboards.
- Configured and optimized Solr search engine for efficient querying of results.
- worked open source python library pg_python which is used for generating complex SQL queries in python.
- Created advanced features like predicting competitors ,market share etc.