SHIVARAMAKRISHNA KASIREDDY

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EDUCATION:

Master's in Data Science, University of Maryland Baltimore County, Maryland, USA — Aug 2022 – May 2024
Bachelor's in Computer Science, Jawaharlal Nehru Technological University, Telangana, IN — Aug 2017 – June 2021

TECHNICAL SKILLS:

Programming Languages: Python, Java, JavaScript, R, Scala
Data Analytics: Tableau, Power BI, R, Pandas, NumPy, TensorFlow, Matplotlib, SciPy, Excel, PowerPoint, Seaborn
Data Visualization: Tableau, Power BI, Plotly
Data Engineering: Apache NiFi, Google Big Query, Apache Airflow, Apache Spark, AWS Lambda, AWS Glue
Big data: Hadoop HDFS, Apache Kafka, Hive, Pig, AWS Kinesis
Statistical Analysis and ETL Tools : SAS, SPSS, STATA, SSIS, Alteryx , Talend
Databases: MySQL, MongoDB, Cassandra.
DevOps: Jenkins, GitLab CI/CD, Docker, Kubernetes, Terraform, Ansible, ELK Stack
Cloud Technologies: AWS, Microsoft Azure, GCP

PROFESSIONAL EXPERIENCE

VITG, Baltimore, USA: Cloud Data Engineer — May 2024 – present

- Developed predictive analytics models with TensorFlow and Scikit-learn; integrated real-time data streaming using Apache Kafka and AWS Kinesis for financial forecasting and risk management.
- Conceptualized AWS Glue to perform data transformation, validation, and cleansing tasks, ensuing in a 31% reduction in the data processing period and a 27% improvement in data accuracy and reliability.
- Implemented robust data pipelines with Apache NiFi, Airflow, and AWS Glue, leveraging AWS and Azure for scalable, high-performance ETL solutions.
- Developed tailored visualizations, including pie charts and bar plots, using Tableau to meet specific target requirements.

LTIMindtree Limited, Bangalore, India: Data Engineer. — July 2021 – Aug 2022

- Performed advanced MapReduce programs in Hive, Pig, and Python, leading to a 40% improvement in data processing speed and enabling over 60+ successful data analysis projects.
- Applied Spark using Python and Spark SQL, achieving a remarkable 50% reduction in data processing time, and enabling 100% faster data testing, enhancing overall data analysis efficiency.
- Designed and managed ETL pipelines utilizing Hadoop, Spark, and Hive, achieving a 30% improvement in data processing speed and enhancing data integration and operational efficiency.
- Established seamless connections with databases, including AWS Redshift and MySQL, enabling efficient data retrieval with a 30% improvement in query response times and a 25% reduction in data access latency.
- Architected distributed systems using microservices, Docker, Kubernetes, and OpenShift. Integrated CI/CD pipelines with Jenkins and GitLab CI/CD. Implemented IaC with Terraform and Ansible for environment setups.

Sudheeksha Software Solutions Private Ltd., Hyderabad, India: Data Analyst — Sep 2019 –Feb 2021

- Generated insightful data visualizations using Python libraries such as Matplotlib, seaborn, and Plotly and dashboards with Tableau, PowerBI for effectively communicating complex information and trends to stakeholders.
- Conducted comprehensive data analysis and data cleaning on large datasets using SQL, Python, and R. Ensured data accuracy and consistency for precise reporting and analysis.

ACADEMIC PROJECTS

Price Performance Prediction — Spring 2024

- Developed a dynamic web application using Streamlit for price performance prediction with machine learning (LSTM, GRU, Random Forest) and time series analysis (ARIMA, SARIMA, Prophet). Utilized hyperparameter tuning, advanced data analysis to forecast future price movements.
- Reduced feature dimensionality using Principal Component Analysis (PCA), maintaining 99% of variance with reduced features, significantly speeding up the classification process without sacrificing accuracy.

Efficient Inventory Management System (EIMS) via Serverless Architecture — Fall 2023

- Implemented the EIMS using Kafka, AWS Lambda, API Gateway, and DynamoDB to provide scalable serverless solutions, enhancing operational efficiency and reducing costs.
- Innovated a real-time inventory management system with advanced performance analytics, utilizing the flexibility of AWS serverless technologies.

Music Recommendation System, Python, Recommendation Systems, Machine Learning — Spring 2023

- Led the development of a recommendation system using collaborative/content-based filtering techniques, achieving a recommendation accuracy of 87%.

CERTIFICATIONS

Cloud and Data: AWS Solutions Architect Certification, Azure Data Engineer Associate
Analytics: Google Data Analytics Professional Certificate, Microsoft PowerBI