SRI MAHA LAKSHMI NAMA

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Professional Summary

A Performance-driven and detail-oriented AWS Data Engineer with 1.8 years of hands-on experience in designing, developing, and maintaining scalable data pipelines and cloud-based solutions. Adapt in leveraging AWS services such as Glue, EMR, Lambda, S3, Redshift, and RDS to build reliable, high-performance data workflows. Proficient in Python and SQL for data transformation, automation, and troubleshooting. Experienced in end-to-end production support and incident management, ensuring seamless real-time data operations. Passionate about solving complex data challenges and collaborating with cross-functional teams to drive actionable insights and AI/ML integration.

Technical Skills

Cloud Platforms: AWS (EC2, S3, Lambda, RDS, Glue, Redshift, EMR, Step Functions, CloudWatch).
Programming Languages: Python, SQL, PySpark,C.
Databases: Amazon RDS (MySQL, PostgreSQL), Redshift.
ETL and Data Tools: AWS Glue, Apache Spark, Amazon EMR, SQL, Postman.
Web Development: HTML, CSS.
Monitoring and Logging: CloudWatch, CloudTrail, AWS Insights.
Version Control and DevOps: Git, CI/CD, ServiceNow.
ServiceNow: ServiceNow Administration, User Management, Workflow Automation, Service Catalog Management, Incident Resolutions using ServiceNow
Others: Postman, API Testing, Data Lakes, Parquet

Experience

ACCENTURE SOLUTIONS PRIVATE LTD **December 2021 – June 2023**
AWS Data Engineer *Hyderabad, India*

- Monitored daily health checks on AWS services and prepared reports for stakeholders.
- Created web jobs and analyzed logs in AWS CloudWatch and AWS Insights; performed code changes and deployments during sprints to resolve incidents.
- Developed and optimized data lakes on Amazon S3 using Parquet and partitioning, improving data retrieval speed.
- Designed, developed, and deployed data pipelines using AWS services like S3, Lambda, and Glue for seamless data processing and integration.
- Developed and optimized ETL workflows using AWS Glue for large-scale data transformation, supporting analytics and business reporting.
- Monitored AWS infrastructure using CloudWatch, AWS Insights, and CloudTrail, reducing ETL failures to maximum extent.
- Designed and executed Amazon EMR jobs with Apache Spark for large-scale batch processing; optimized job performance through resource tuning.
- Scheduled and monitored EMR pipelines using AWS Step Functions, ensuring reliable data transformation workflows.
- Used Postman to test RESTful APIs for data ingestion and integration; created API test suites to support CI/CD deployments.
- Retrieved and managed structured data from Amazon RDS (MySQL/PostgreSQL) using SQL queries; secured access via IAM roles and VPC configurations.
- Integrated ServiceNow with third-party tools like Jira and Microsoft Teams to streamline incident tracking and resolution.
- Provided production support, troubleshooting AWS Glue, Redshift, and real-time pipeline issues to ensure high availability.
- Acted as a bridge between development and operations teams by providing end-to-end production support, resolving incidents, deploying all required fixes, and implementing preventive solutions.
- Collaborated with cross-functional teams, including analysts and DevOps, to resolve incidents and enable seamless data access.
- Participated in sprint planning and code reviews, contributing to workflow optimization and high-quality deliverables.

Projects

Parkinson's Disease Using Capsule Networks | *Python, TensorFlow/Keras, Capsule Networks* **Mar 2024 – Apr 2024**

- This study demonstrates the potential of Capsule Network (Caps Net) technology for early detection of Parkinson's disease (PD) through voice analysis, providing a non-invasive diagnostic solution to identity early symptoms of PD.
- By integrating advanced data preprocessing and augmentation techniques, the Caps Net model was significantly optimized, improving model robustness and enhancing its ability to generalize across diverse patient data.
- Achieved higher accuracy compared to traditional CNNs by effectively capturing complex patterns in biomedical signals and images.

E-Commerce Customer Behavior Classification Using ML | *Python, Scikit-learn, Pandas, Jupyter Notebook* **Oct 2024 – Dec 2024**

- Developed a machine learning solution to classify customer behavior segments and forecast future purchases using one year of transaction data from over 4,000 customers.
- Built and compared models including Logistic Regression, SVM, Random Forest, and Gradient Boosting; achieved top performance with an ensemble of RF, GB, and k-NN (F1-score: 97.72 percent).
- Performed extensive preprocessing including handling missing data, normalization, one-hot encoding, and class balancing through oversampling and weighting. Improved precision and recall for customer segment prediction, enabling more effective targeted marketing strategies.

Education

University of South Dakota **Aug 2023 – May 2025**
Master's in Computer Science *Vermillion, SD*

University College of Engineering JNTUK Narasaraopet **Aug 2016 – September 2020**
Bachelor's in Electronics and Communication Engineering *Narasaraopet, India*

Certifications and Skills

- Capgemini Certified Web Developer(Python Ruby On Rails) - http://www.edubridgeindia.com/certificate-detail?enrollment$_n umber = EBEON$0521377215
- AWS Certified Solutions Architect Associate Introduction– Udemy