Amisha Garg
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Professional Summary

Certified AWS Cloud Practitioner with expertise in data engineering, data science, and DevOps. Skilled in building ETL pipelines, real-time data streaming, and cloud solutions using AWS. Proficient in Python, SQL, and machine learning frameworks like TensorFlow. Experienced in applying machine learning for predictive analytics and delivering actionable business insights through automation and scalable cloud-based solutions.

Awards and Certifications

AWS Certified Cloud Practitioner | *Amazon Web Services(AWS)* *September 2024*
Power Award | *Ericsson* *May 2021*

Technical Skills

Languages : Python, R, SQL, Bash, C
Machine Learning : Neural networks, CNN, Keras, Deep Learning, TensorFlow, OpenCV, Scikit-learn, Predictive Analytics
Data Visualization : Tableau, Power BI, Excel, Matplotlib, Seaborn, Pandas, Numpy, Matplotlib, ggplot, Scikit-learn
Statistics: : Hypothesis Testing, A/B Testing, Probability, Descriptive Statistics, TimeSeries Analysis, K-Means Clustering, Regression, PCA
DevOps and API Tools : Git, Docker, OpenShift, Kubernetes, Hive, Ansible, CI/CD, Postman
Cloud Platforms : AWS [ECS, ECR, EC2, S3, IAM, VPC, Elastic MapReduce, Lambda, AWS Backup, CloudWatch, and CloudTrail]
ETL Data Tools : MySQL, MongoDB, Redis, PostgreSQL, DynamoDB, Kafka, Apache Airflow, Apache Spark, Hadoop

Experience

Data Analyst Intern | *Telos Air* *March 2024 – Present*
- Leveraged Python to analyze sensor data, optimizing replacement schedules and improving ventilation strategies.
- Applied growth and decay models to track CO2 levels, boosting air quality management.
- Implemented Apache Kafka to stream live environmental data, capturing critical metrics for timely insights.
- Built ETL workflows using Apache Airflow, ensuring seamless data integration and reducing manual effort.
- Migrated data workflows to Python, enhancing trend analysis and reducing processing time.

Data Scientist - Graduate Assistance | *Clarkson University* *October 2022 – December 2023*
- Enhanced students' proficiency in R programming through personalized support, facilitating learning and application.
- Mentored undergraduates and graduates in developing strong ETL processes and technical projects, enhancing their analytical and problem-solving abilities in the tech domain.
- Innovatively developed a laboratory curriculum, significantly enhancing student engagement and learning outcomes.

DevOps Engineer | *Ericsson* *February 2019 – August 2022*
- Designed a Python batch handler script, increasing operational efficiency and data accuracy by 50%.
- Developed JSON stack files and deployed them to AWS using CloudFormation and S3.
- Automated deployments with Ansible playbooks, enabling CI/CD and reducing deployment time.
- Deployed Ericsson products using Docker and Kubernetes, streamlining 5G service delivery.
- Managed client services using SOAP UI REST API, performing efficient CRUD operations.

Education

Master of Science in Applied Data Science | *3.83* *August 2022 – December 2023*
Clarkon University , *Potsdam, NY, USA*

Coursework: Data Mining, Data Warehousing, Machine Learning, Visualization of Complex Data, Cloud Computing, BigData

Bachelor of Technology in Computer Science and Engineering | *8.2* *August 2015 – May 2019*
Mody University , *India*

Projects

Full Stack Component Application *GitHub Link*
Tech Stack: Python, AWS EC2, Docker, MySQL, PHPMyAdmin

- Created a Python script to automate AWS EC2 setups, simplifying server provisioning.Implemented functionality to generate SSH keys, launch EC2 instances, and upload a customizable bash script containing commands to install essential tools and software like Python, JupyterLab, Docker, MySQL, and PHPMyAdmin.

New York Taxi Data Integration And Analysis *GitHub Link*
Tech Stack: Python, SQL

- Optimized New York Taxi data integration and analysis using Python and MySQL; merged datasets totaling 28 million rows, demonstrating advanced data manipulation skills.Developed an Entity-Relationship Diagram (ERD) for database optimization and executed it in MySQL

Skin Cancer Classification *GitHub Link*
Tech Stack: TensorFlow, Python, Matplotlib, AWS

- Engineered an advanced Convolutional Neural Network (CNN) with an attention mechanism, achieving 95% classification accuracy on the HAM1000 dataset, leveraging TensorFlow, Python, and Matplotlib for development, visualization, and preprocessing. Enhanced model robustness through strategic oversampling to correct data imbalance.
- Managed AWS infrastructure with EC2, Deep Learning AMI, and S3 for efficient data handling and deployment.