

Amisha Garg

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SUMMARY

Experienced DevOps Engineer with 3 years of experience in AWS, SQL, R, Tableau, and ETL. Proven ability to develop and implement efficient data engineering solutions. Skilled in managing and optimizing data pipelines and architectures. Applying for the position in the field of Data Science to leverage knowledge and expertise.

EXPERIENCE

Graduate Teaching Assistant

Clarkson University

October 2022 - December 2023, Potsdam, NY

- Developed and implemented an innovative laboratory curriculum resulting in increased student engagement.
- Provided guidance and mentorship to both undergraduate and graduate students in the development of ETL processes and assignments.
- Facilitated learning and proficiency in R programming through personalized assistance and support.

DevOps Engineer

Ericsson

February 2019 - August 2022, India

- Automated Mobile Number Portability request processes with a Python batch handler script, resulting in a 50% increase in operational efficiency and data accuracy.
- Configured and integrated servers on Cloud Executive Environment (CEE), leading to a reduction in provisioning time by 40%.
- Automated configuration management and deployments using Ansible playbooks, reducing deployment time and Implemented CI/CD.
- Managed end to end solutions for Ericsson product deployments in live environments, optimizing Docker image deployments within Kubernetes, resulting in a 30% increase in deployment efficiency for 4G/5G services.
- Conducted User Acceptance Testing with clients, ensuring a 100% success rate in seamless application Go-Live processes.

PROJECTS

Mega Detector

Clarkson University • August 2023 - December 2023

- Spearheaded a project on wild animal detection and classification in natural environments using Mega Detector, an advanced object detection model.
- Implemented the project on AWS EC2 instances with the Deep Learning AMI, leveraging transfer learning to fine tune the Mega Detector model for enhanced accuracy.
- Developed and optimized data pipeline scripts for efficient data retrieval, processing, and storage on the EC2 instance.
- Contributed to the creation of a video processing script, demonstrating adaptability for both video and image processing tasks in the wildlife detection context.

Netflix Data Visualisation and key Concept

Clarkson University • January 2023 - April 2023

- Conducted efficient data preprocessing, reducing processing time by 30%, including date format conversion and calculating subscription duration and revenue metrics.
- Implemented choropleth maps and bar charts with Plotly Express, providing visual insights into total users.
- Analyzed subscription types and user distribution, utilizing pandas, matplotlib, seaborn, Dash, and Plotly, to increase in dashboard interactivity.
- Improved decision-making by presenting clear trends in Netflix user demographics, showcasing Python programming and data analysis skills.

New York Taxi Data Integration And Analysis

Clarkson University • <https://github.com/amishagarg20/Taxi-Project> • October 2022 - December 2022

- Integrated 14 million rows of New York Taxi Data using Python Notebook, enhancing dataset for analysis.
- Conducted Univariate and Bivariate Analysis, providing key insights for trip duration prediction models.
- Designed Entity-Relationship Diagram, leveraging Pymysql to import and manage data efficiently.
- Optimized SQL queries, reducing query time from 7 minutes to 0.1 seconds, boosting data processing.

EDUCATION

Masters In Applied Data Science

Clarkson University • Potsdam, NY • 2023

Bachelors Of Science And Technology In Computer Science and Engineering

Mody University • India • 2019

CERTIFICATIONS

Power Award

- Received a Power Award in Ericsson for exceptional display of teamwork and going above and beyond to help customers.

SKILLS

Technical Skills: Python, R, Tableau, SQL, ETL, Pandas, NumPy, AWS (S3, EC2, VPC, EMR, Redshift, IAM, Lambda), Docker, Kubernetes, Ansible, Git, GitHub, TensorFlow, Pytorch, Linux.