Sai Muralidhar Raju Chennamadhavuni

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Summary

Motivated Computer Science undergraduate with strong DevOps fundamentals and hands-on experience in CI/CD pipelines, containerization, cloud services, and automation. Skilled in Linux, Git, Docker, Kubernetes, and popular CI/CD tools, with exposure to monitoring, security, and infrastructure as code. Quick to adapt to new technologies, effective in cross-functional collaboration, and committed to optimizing development workflows. Seeking an entry-level DevOps opportunity to apply technical skills, enhance system reliability, and contribute to streamlined engineering operations.

Projects

Flask-Based ML Prediction API(Sept-2025) GitHub

Designed and implemented a DevOps pipeline to automate the build, containerization, and deployment of a static web application using Jenkins, Docker, Terraform, and AWS (ECR, EC2,ECS).Managed source code with Git and GitHub, automated CI/CD workflows in Jenkins, and used Docker for containerization.Provisioned and configured AWS infrastructure using Terraform, ensuring scalable and consistent deployments.Achieved fully automated, version-controlled, and repeatable deployments, enhancing efficiency and reliability in application delivery.

Tools:-AWS,Jenkins,Docker,Terraform

Road Damage Detection Using Machine Learning and Computer Vision(Nov-2024) GitHub

Involved in developing and deploying a road damage detection model using YOLOv8, Python, and OpenCV.Enhanced model performance through data preprocessing, augmentation, and parameter tuning, ensuring accurate detection and classification of various road damages such as cracks and potholes.The project focused on automating infrastructure monitoring by training the model for high accuracy, and maintenance of damaged road surfaces.

Tools:-Python,OpenCV,Machine Learning,YOLOv8

Multiple Image Encryption Using Central Dogma(Dec-2023) GitHub

Designed and implemented an algorithm that converts image data into encrypted sequences using biological-inspired encoding and decoding processes, ensuring data confidentiality and robustness against unauthorized access.Evaluated the algorithm's performance on multiple images to ensure high encryption strength, reduced redundancy, and improved data transmission security.The project aimed to develop a biologically inspired multi-image encryption and decryption system based on central dogma principles, ensuring secure and efficient data transformation.

Tools:-Python,Streamlit,Numpy,Matplotlib

Education

2021 - 2025	Neil Gogte Institute of Technology	**B.Tech(CSE)**	GPA:7.91
2019-2021	Sri Sanjeevni Junior College	**Class XII**	Percentage-93
2018-2019	Dr KKR's Goutham Concept School	**Class X**	CGPA: 9.0

Skills

Programming Languages:	Java, Python
Web Technologies:	HTML , CSS , JavaScript
Tools / Platforms:	Jenkins , Github , AWS, Docker
Databases:	MySQL
Machine Learning and AI:	Jupyter Notebook , YOLO