Krushna Panchvishe

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Experience

Centre for Development of Advanced Computing (C-DAC) Pune
Project Engineer (DevOps/MLOps) - Applied AI Group Oct 2021 - Present

- Collaborated with cross-functional teams to establish and enhance CI/CD pipelines, resulting in faster and more reliable software releases.
- Implemented infrastructure automation using Ansible, reducing manual provisioning time by **60%**.
- Orchestrated containerization with Docker, Docker Swarm/Kubernetes, optimizing application deployment and scaling processes.
- Developed and maintained scripts for various automation tasks, resulting in improved efficiency and reduced human error.
- Collaborated with development teams to optimize build processes and improve code quality using code analysis and testing tools.
- Worked on automated VAPT(SAST) report generation and guided teams to resolve them.
- Managed Gitlab(EE) Administration for whole project. i.e. finalizing folder structure, account management, branching strategies, etc.
- Used Nginx as a load balancer and reverse proxy.
- Setup and Implementation of centralised repository management tools from scratch like Nexus, JFrog, Container and package registries in Gitlab EE.

Education

Centre for Development of Advanced Computing (C-DAC) Pune
PG Diploma Artificial Intelligence - *Grade: A* Mar 2021 - Sep 2021

Bhivarabai Sawant Institute of Technology and Research Pune
B.E. Computer Engineering - *72%* Aug 2014 - Jul 2018

Projects

Cancer Detection using Gene Expression

- Analyzed and batch processed zip files from The Cancer Genome Atlas (TCGA) database using python scripts to create a csv file containing **60,000 features and 11,000 rows**, where each feature represented a unique gene and each row was a unique patient.
- Designed a voting classifier based on PCA+CNN, Cosine Similarity+XGBoost, UMAP+LGBM to obtain a robust binary classifier which had an **f1-score of 0.98** and **accuracy of 0.97** .

Car make and model detection

- Built an image classification model using FastAi to detect make and model of a car based on Stanford Car dataset consisting of 16000 images of 196 different classes.
- Dockerized the application and deployed it on an Azure compute instance and AWS Fargate.

Languages and Technologies

- Python
- Numpy, Pandas, Scikit-learn, Pytorch, SpaCy, HuggingFace
- Git, FastAPI, Streamlit, Docker