Ankitha Suresh

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Education

University of Massachusetts, Amherst 2023-Present
Master of Science in Computer Science GPA: 3.88/4.0

JSS Science and Technology University, Mysore, India 2017-2021
Bachelor of Computer science and Engineering GPA: 3.74/4.0

Work Experience

Hewlett Packard Enterprise, Bangalore, India
Software Engineer 09/2021 - 07/2023

- Developed and deployed customized Ansible modules, integrating Serviceguard seamlessly with cloud infrastructure; reducing deployment time by 80% and optimizing scalability.
- Incorporated Python scripts to transform an array-based application into an application-based system, resulting in enhanced workload recovery and a remarkable 92% improvement in efficiency.
- Optimized a highly efficient custom utility script to streamline pre-installation operations for Serviceguard; accomplished 85% reduction in deployment time.
- Streamlined the Metrocluster monitor for Bruce Power by programming a site-specific CLI flag, eliminating the need for SSH and revolutionizing system efficiency and control.
- Pioneered an automated testsuite using Ansible and Azure cloud infrastructure, validating the resilience and failover capabilities of Serviceguard.
- Configured an Ansible script to provision compute resources on Azure cloud, resulting in a 70% reduction in manual provisioning time and enabling the team to scale efficiently.

Hewlett Packard Enterprise
Research and Development Engineer Intern 02/2021 - 08/2021

- Developed an automated support matrix webpage, seamlessly integrating database updates, resulting in a 90% reduction in manual data entry and ensuring accurate and up-to-date information for customers.
- Designed and executed an Ansible Playbook to enhance vault support, resulting in a 80% reduction in password recovery requests and increased data security for the company.
- Configured an alert system using Python and Oracle DBMS, promptly notifying users of critical failures; reduced downtime and improved overall system reliability.
- Implemented a customized user interface of Serviceguard Manager, resulting in a 75% reduction in manual maintenance tasks and streamlining the process of managing serviceguard modules across nodes.

Projects

Crop Yield Prediction **ML, Python, Numpy, SkLearn**

- Analysed and modelled a machine learning model to predict crop yields based on historical weather data and crop-specific features. Utilized Python, scikit-learn, and pandas to preprocess and analyze a dataset of 5 years' worth of agricultural data.
- Adapted Gradient Boosting Algorithm to predict crop yield, employed feature scaling and selection techniques to improve model performance and achieved an accuracy of 91.8%.
- Implemented a Heroku-powered mobile app that accurately determined suitable crops and predicted yield percentages based on user-provided location data, optimizing agricultural productivity by up to 75%.

Car Make and Model Classification **ML, Python, Numpy, Tensorflow, Matplotlib**

- Engineered a highly efficient machine learning model leveraging CNNs to analyze a vast dataset of car images, enabling accurate prediction of car make and model.
- Implemented Inception-v3 model and and attained a level of precision of 92% in predicting car make and model, enabling the development of an image recognition system for automotive applications.

Placement Management GUI **HTML, CSS, PHP, MySQL, Bootstrap, Javascript**

- Enabled a user-friendly placement management GUI application to streamline the placement process for the university
- Reduced placement process effort by 87%, resulting in higher student satisfaction and a more organized placement system.

Skills

Languages: Python, Javascript, HTML, CSS, Bash
Frameworks: Ansible, React.js, Django, REST, Unittest, Pytest, MySQL, Pandas, MangoDB
Technologies: Git, Github, Jira, VSCode, Pycharm