

ANKITHA SURESH

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Education

University of Massachusetts, Amherst, MA

Master of Science in Computer Science

09/2023 – Present

GPA 3.767/4

JSS Science and Technology University, India

Bachelor of Computer Science and Engineering

05/2021

GPA 9.34/10

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 40% 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 45% 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 65% 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 40% 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 50% 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

05/2021

- 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 68%.

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

09/2020

- 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 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

12/2019

- Enabled a user-friendly placement management GUI application to streamline the placement process for the university
- Reduced placement process effort by 40%, resulting in higher student satisfaction and a more organized placement system.

Technical Skills

Languages: Java, Python, SQL, C, Javascript, Bash, C++, MATLAB

Frameworks: Ansible, Hadoop, Node.js, React.js, REST, unittest, Pytest, MLflow, MySQL, Pandas, MongoDB, Tensorflow

Technologies: Git, Github, AWS, Jira, VS Code, Pycharm