

Ankitha Suresh

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EDUCATION

University of Massachusetts, Amherst	2023-Present
Master of Science in Computer Science	GPA: 3.77/4.0
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
<ul style="list-style-type: none">- 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
<ul style="list-style-type: none">- 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
<ul style="list-style-type: none">- 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
<ul style="list-style-type: none">- 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
<ul style="list-style-type: none">- 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.	

SKILLS

Languages:	Python, Java, SQL, C, Javascript, Bash, MATLAB
Frameworks:	Ansible, Hadoop, Node.js, React.js, REST, Unittest, Pytest, MLflow, MySQL, Pandas, MangoDB, Tensorflow
Technologies:	Git, Github, AWS, Jira, VSCode, Pycharm