Ankitha Suresh

github | linkedin | ankithasuresh.com | ankithasures@umass.edu | +14134661933

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

- Spearheaded the development and deployment of customized Ansible modules, integrating Serviceguard seamlessly with cloud infrastructure, which reduced deployment time by 80% and optimized scalability.
- Developed Python scripts to transform an array-based application into an application-based system, leading to a remarkable 92% improvement in workload recovery efficiency.
- Created a highly efficient custom utility script to streamline pre-installation operations for Serviceguard, achieving an 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 significantly improving system efficiency and control.
- Pioneered the creation of an automated test suite using Ansible and Azure cloud infrastructure, achieving a 50% reduction in testing time and increasing overall system reliability for Serviceguard's resilience and failover capabilities.
- 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

- Engineered an automated support matrix webpage, integrating seamless database updates that cut manual data entry by 90%, ensuring precise and timely information for customers.
- Architected and deployed an Ansible Playbook to bolster vault support, slashing password recovery requests by 80% and heightening data security.
- Configured a Python-based alert system with Oracle DBMS, significantly enhancing system reliability by reducing downtime through prompt notifications of critical failures.
- Developed a customized user interface for Serviceguard Manager, decreasing manual maintenance tasks by 75% and optimizing the management process of serviceguard modules across nodes.

Projects

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

- Engineered and optimized a machine learning model to forecast crop yields using historical weather data and crop-specific features. Leveraged Python, scikit-learn, and pandas to preprocess and analyze a comprehensive 5-year agricultural dataset.
- Enhanced model accuracy to 86.8% by implementing advanced random forest algorithm with gradient Boosting techniques and applying rigorous feature scaling and selection methodologies.

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

- Designed a high-performance machine learning solution employing Convolutional Neural Networks (CNNs) to classify car make and model from a vast image dataset.
- Implemented the state-of-the-art Inception-v3 model, achieving a precision rate of 81% in car identification. This initiative paved the way for an advanced image recognition system tailored for automotive applications.

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

- Formulated and deployed an intuitive GUI application to streamline university placement processes, significantly reducing operational effort by 87%.
- Improved student satisfaction and operational efficiency with a user-friendly interface, ensuring a more organized placement system.

Skills

Languages:	Java, Python, Javascript, HTML, CSS, Bash,PHP
Frameworks:	React.js, Node.js, gRPC, graphQL, Ansible, REST, Unittest, Pytest, Pandas
Databases:	MySQL, MangoDB, PostgreSQL, NoSQL
Development Tools:	System Design, AWS, Git, Github, Jira, VSCode, Pycharm
API Design and Architecture:	Microservices, API Design (RESTful, gRPC, GraphQL), Event-Driven Architecture