Aaditree Jaisswal

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Experience

Advisor360 - Systems Engineer   Weston, USA
Infrastructure - Python, Ansible, Jenkins   Jun 2024–Aug 2024

- Built an automated Linux vulnerability assessment pipeline using Python, orchestrated via Shell scripts; developed a Tkinter-based GUI for real-time monitoring and packaged the tool into a standalone Windows executable using PyInstaller, streamlining remediation workflows and reducing issue resolution time by 20%.
- Developed Ansible playbooks and Jenkins pipelines to automate the decommissioning of 20+ non-production Linux servers, reducing manual effort and improving system uptime. Also created and managed environment credentials (Dev, QA, Perf) to support cross-functional development teams and streamline access control.

Cisco Systems - Software Engineer II   Bengaluru, India
Customer Experience Cloud — Angular, NgRx, TypeScript, Redux, Git, Jira   Aug 2021–Jul 2023

- Delivered Angular + NgRx UI modules for asset telemetry and lifecycle insights, used by 10K+ enterprise users; reduced analytics latency by 30% and improved tracking reliability.
- Owned feature lifecycles across 5+ major projects, from planning to production, accelerating roadmap delivery by 20% and ensuring high-quality releases.
- Drove UI-driven strategies and collaborated cross-functionally with UX, backend, and PM teams; contributed to onboarding and peer reviews to maintain code quality and knowledge transfer, as well.

Education

University of Massachusetts Amherst   May 2025
Master of Science in Computer Science   GPA: 3.8/4.0

MKSSS's Cummins College of Engineering for Women, Pune   July 2021
Bachelors of Technology in Computer Engineering

Research & Publications

Mathematical Expressions in Software Engineering Artifacts | *Publication*

- Developed a dataset and tool to discern mathematical expressions (ME) to advance and ease research in the MEs within bug reports.

Classification of Handwritten Indic scripts using Deep Learning | *Publication*

- Employed a deep learning approach to proficiently classify and identify twelve handwritten Indic script languages.

Effect of Hyperparameters on Backpropagation | *Publication*

- Investigated the impact of various hyperparameters on the backpropagation process, contributing to a deeper understanding of their influence.

Technical Projects

Unsupervised Domain Adaptation to Classify Unlabeled Target Domain Data | Python

- Built and fine-tuned unsupervised domain adaptation models on Office-Home and Office-31 datasets using ResNet-50 as the feature extractor; achieved 93.13% accuracy, outperforming baseline transfer learning approaches.
- Optimized model inference and pre-processing pipeline, reducing overall latency by 20% and enabling scalable batch evaluation on unseen target domains.

Ummeed | *Demo Video* | *Github* | Python, Django

- Designed and built a Django-based web platform to raise awareness of global humanitarian issues through real-time communication and educational content.
- Integrated NLP modules for keyword extraction and document similarity using NLTK and TF-IDF, enabling dynamic clustering of news and social feeds and implemented interactive geospatial visualizations with Google Maps API and GeoPy, allowing users to explore issue-specific events across regions.

Skills

Languages: Python, Java, R, TypeScript, JavaScript, C++, HTML, CSS
Frameworks & Tools: Django, Flask, Angular, TensorFlow, PyTorch, Ansible, Node.js, Git, Jenkins, Shell Scripting, Cypress, Redux, GeoPy
Databases: Postgresql, Mysql, SQLite, Elasticsearch
Other: Linux, Firebase, Jira, Google Cloud, Tableau

Achievements

- Cisco MVP Peer Award for collaboration and innovation on projects impacting 50K+ customers.
- Local People's Choice Winner at the NASA International Space Apps Challenge 2020.
- Led sessions as Google DSC Lead and tutored approximately 20 underprivileged students.