

Aaditree Jaisswal

aaditree.github.io/portfolio | linkedin.com/in/aaditree-jaisswal | github.com/aaditree | [Recommendations](#)

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EXPERIENCE

Advisor360 - Systems Engineer

Weston, USA

Infrastructure - Python, Ansible, Jenkins

Jun 2024 – Aug 2024

- Engineered an automated Linux vulnerability assessment pipeline for internal endpoint systems using Python and Shell scripts; Implemented 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%.
- Automated server workflows via Ansible playbooks and Jenkins pipelines to decommission 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, Node.js, 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.
- Led UI-driven strategies across 3+ cross-functional teams (UX, backend, PM); participated in onboarding 5+ new engineers and conducted 50+ peer code reviews to uphold 90%+ code quality and ensure seamless knowledge transfer.

EDUCATION

University of Massachusetts Amherst

Sep 2023 – May 2025

Master of Science in Computer Science

GPA: 3.8/4.0

- Course assistant for a graduate-level practicum in Ethical Hacking and System Security at the Manning College of Information and Computer Sciences

MKSSS's Cummins College of Engineering for Women, Pune

Aug 2017 – July 2021

Bachelors of Technology in Computer Engineering

Research & Publications

Mathematical Expressions in Software Engineering Artifacts | [Publication](#)

- Curated a custom dataset of 1,500+ annotated bug reports and built a tool to identify mathematical expressions (MEs), increasing research efficiency by 20%+ in projects focused on ME-based issue detection.

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](#)

- Analysed 10+ hyperparameter configurations during backpropagation training runs on multiple datasets; achieved a 7–10% improvement in model convergence rate and stability.

Technical Projects

Unsupervised Domain Adaptation to Classify Unlabeled Target Domain Data | Python

- Constructed 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

- Collaborated with a 4-person team to design and implement a Django-based web platform simulating global humanitarian issue tracking; integrated 10+ curated issue profiles, real-time chat features, and interactive content modules for awareness and education.
- Integrated NLP modules (NLTK, TF-IDF) for real-time clustering of 1,000+ news and social feed entries; implemented interactive geospatial views with Google Maps API and GeoPy, enabling users to explore 100+ issue-specific events across global 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, SDLC

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.