

Aaditree Jaisswal

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Education

University of Massachusetts Amherst

Master of Science in Computer Science

Expected Graduation May 2025

GPA: 3.8/4

MKSSS's Cummins College of Engineering for Women, Pune

Bachelors of Technology in Computer Engineering

July 2021

GPA: 3.31/4

Skills

Programming Languages & Tools: Python, Java, R, TypeScript, HTML, CSS, JavaScript, C++, Linux
Shell Scripting, Node.js, Git, Ansible, Android

Frameworks & Libraries: Flask, Angular, TensorFlow, PyTorch, Django, Bootstrap, Cypress

Databases & Data Tools: PostgreSQL, MySQL, SQLite, Elasticsearch, GeoPy

Professional Experience

Advisor360

Systems Engineer

June 2024 – Aug 2024

Weston, Massachusetts, USA

- Developed Linux vulnerability assessment scripts, generating detailed reports and dashboards, enhancing system security and reducing vulnerability management time by 20%.
- Automated decommissioning of 20+ non-production machines, resolving complex incident tickets and improving operational efficiency by 30%.
- Improved security workflows using manual and automated scripts, reducing risk and accelerating response times.

Cisco

Software Engineer II

Aug 2021 – July 2023

Bengaluru, Karnataka, India

- Designed and developed user-friendly UI screens for the Cisco CX Cloud platform, increasing asset management efficiency by 40% and enhancing analytics capabilities for 10,000+ users.
- Collaborated with cross-functional teams to optimize telemetry data collection, resulting in more than 15% faster system performance and real-time analytics.
- Spearheaded User Interface design strategies for the CX Cloud Admin domain, enhancing usability and data management capabilities for enterprise customers.

Technical Projects

Unsupervised Domain Adaptation to Classify Unlabeled Target Domain Data | Python

- Developed and optimized domain adaptation models (Office-Home, Office-31) using advanced frameworks like ResNet-50, achieving 93.13% accuracy on classification tasks.
- Debugged edge cases and optimized pipeline performance for improved model efficiency.

Ummeed | [Video](#) | [Github](#) | Python, Django

- Developed a web application to connect individuals globally, addressing humanitarian issues through communication, education, and awareness.
- Implemented keyword extraction, document similarity, and geospatial visualization to enhance information accessibility and outreach.

Research & Publications

Mathematical Expressions in Software Engineering Artifacts | Jan 2023 | [Publication link](#)

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

Classification of Handwritten Indic scripts using Deep Learning | Jan 2022 | [Publication link](#)

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

Effect of Hyperparameters on Backpropagation | Dec 2021 | [Publication link](#)

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

Achievements

- CPX MVP Peer Award: Recognized at Cisco for enhancing collaboration and contributing to projects impacting over 50,000 customers.
- NASA's International Space Apps Challenge 2020: Led a team of five to develop innovative solutions, delivering a functional prototype in a limited period of time.