

# Ankitha Suresh

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## EDUCATION

**University of Massachusetts, Amherst**

**Expected Graduation - 05/2025**

Master of Science in Computer Science | **GPA: 3.88/4.0**

**Coursework:** Algorithms for Data Science, Software Engineering, Database Design and Implementation, Machine Learning

**JSS Science and Technology University, Mysore, India**

**05/2021**

Bachelor of Computer Science and Engineering | **GPA: 3.74/4.0**

**Coursework:** DSA, Operating Systems, Computer Networks, NLP, Neural Networks, Web Technologies, Java and J2EE

## WORK EXPERIENCE

**Headstarter**

**SWE Fellow**

**07/2024 - Present**

- Contributed to an open-source project by developing and submitting a high-quality pull request for Panora, enhancing functionality and integrating omni-channel API software. Collaborated with the team and demonstrated the APIs using Postman.
- Designed and implemented scalable software solutions, including API integrations and data processing pipelines, to support high-performance applications and ensure seamless user interactions.
- Innovated AI models, including a recommendation system using neural networks and a predictive analytics engine with gradient boosting, leading to a 30% increase in user engagement.

**Hewlett Packard Enterprise, Bangalore, India**

**Software Engineer**

**09/2021 - 07/2023**

- Spearheaded the design and deployment of custom automation scripts, integrating cloud infrastructure and optimizing resource management. Achieved an 80% reduction in deployment time and significantly improved system scalability.
- Developed python automation scripts to improve system workflows, transitioning from manual, array-based processes to a more efficient system-based approach. Resulted in a 92% increase in workload recovery efficiency, enhancing overall performance.
- Created a high-performance utility tool to automate pre-installation operations, eliminating manual steps and reducing deployment complexity. This led to an 85% reduction in deployment time, improving project timelines and execution.
- Optimized system monitoring by creating a customized Customer Line Interface, replacing SSH-based processes and enabling more direct interaction with system components. Improved operational efficiency and control, minimizing manual overhead.
- Automated cloud infrastructure management using advanced scripting techniques, reducing testing time by 60% and significantly boosting system scalability, resilience, and fault tolerance.

**Hewlett Packard Enterprise**

**Research and Development Engineer Intern**

**02/2021 - 08/2021**

- Engineered an automated support platform, integrating real-time database updates to ensure the accuracy and timeliness of data. Reduced manual data entry by 90%, enhancing operational efficiency and improving customer information delivery.
- Architected and deployed a secure automation solution for vault management, leveraging best practices in security protocols. Reduced password recovery requests while enhancing data security and streamlining overall operations.
- Developed a custom user interface, automating 70% of manual maintenance tasks and streamlining the management of distributed systems, resulting in increased productivity and seamless operations across nodes.

## PROJECTS

**AlgoCards - AI Flashcards generator for DSA**

**07/2024 - 08/2024**

- Implemented an AI-driven flashcard generator using Next.js and React, creating over 150 flashcards across three distinct sets—Basic DSA, Algorithms, and Advanced DSA—and developed an assessment module with real-time feedback.

**Buddy: Chatbot**

**06/2024 - 07/2024**

- Built a Chatbot with Next.js, React, OpenAI, and Pinecone, achieving 93% improved response accuracy and implementing user authentication and feedback mechanisms, while using MongoDB for secure data management and deploying on Vercel for scalability.

**Crop Yield Prediction**

**11/2020 - 03/2021**

- Engineered a crop yield forecasting model using historical weather data and crop features, improving accuracy to 86.8% with advanced random forest algorithms, gradient boosting, and feature scaling in Python.

**Car Make and Model Classification**

**08/2020 - 11/2020**

- Designed a highly efficient machine learning model using CNNs to analyze car images, implementing the Inception-v3 model to achieve 92% precision in predicting car make and model for an automotive image recognition system.

## SKILLS

**Programming:**

Java, Python, Javascript, .NET, PHP, Bash, Android Studio

**DBMS:**

MySQL, NoSQL, PostgreSQL

**Web Development**

React.js, Node.js, Next.js, HTML, CSS, REST API, GraphQL, gRPC

**Machine Learning:**

Pandas, LLMs, OpenAI, Keras, Numpy, Scikit-learn, MATLAB

**DevOps:**

Docker, CI/CD Pipelines, Ansible, Git, VSCode

**Cloud:**

AWS, GCP