

# Venkata Srinivas

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## EDUCATION

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**Masters in Software Engineering** — Arizona State University (GPA: 3.8/4) Aug 2024 – Jan 2027  
*Courses: Software Agility, Data Processing at Scale, Data Mining, Software Process and Quality Management*

**Bachelor of Technology in Computer Science** — Mahindra University (GPA: 3.3/4) Aug 2020 – May 2024  
*Courses: Data Structures, Distributed Systems, Design and Analysis of Algorithms, Deep Learning, Database Management*

## EXPERIENCE

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**Teaching Assistant** — Arizona State University Jan 2025 – Present

- Assisted in delivering four courses: Computer System Fundamentals, Web-Based Applications, Embedded Devices and Internet-Enabled Embedded Devices by providing instructional and grading support
- Graded assignments, projects, and exams and provided feedback to improve student understanding
- Conducted office hours to clarify technical concepts and resolve student queries

**Data Science Intern** — Analytics Quad4 Jan 2024 – Aug 2024

- Built and validated time-series forecasting pipelines using TimeGPT, PyCaret, and scikit-learn, implementing unit and regression tests to verify prediction consistency and model behavior across datasets
- Achieved 91% SKU demand prediction accuracy on test data and 85% accuracy on real-world data, enabling better planning and improved stock availability for the client
- Cleaned and preprocessed skewed, incomplete datasets and verified data transformations through preprocessing checks

## PROJECTS

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**Cloud-Based AI Health Monitor** — FastAPI, Docker, GitHub Actions Dec 2025 – Present

- Built a **containerized microservices** health monitoring system using **Node.js**, **Express**, and **Docker** to track services
- Developed a **GenAI-powered** log summarization tool using **OpenAI** to generate explanations and suggestions
- Implemented **RESTful APIs**, enabling communication between monitoring, incident and **React.js** dashboards
- Automated **CI/CD pipelines** with **GitHub Actions** for testing, builds, and Docker image deployment
- Reduced mean time to resolution (MTTR) by **50%**

**Inf8 Python Library** — Python, Automated Testing, Unit Tests, Git Jan 2025 – Present

- Developed **Inf8**, a **Python library** for mathematical computations, published on **PyPI** and actively versioned (v0.1.2)
- Designed comprehensive **automated unit and regression tests** to validate **core APIs**, edge cases, and failure scenarios
- Created structured **test plans**, identified **high-risk modules**, and prioritized **test coverage** to improve reliability
- Implemented **modular, testable architecture** with **Git-based workflows** to support scalable testing

**Circadian Score Chrome Extension** — JavaScript, IndexedDB, Git Feb 2026 – Present

- Developed a Chrome extension that computes real-time **Circadian Stimulation (CS)** using **melanopic weighting**, **sRGB-to-linear conversion**, and validated **photobiological models**
- Persisted time-series circadian exposure data using **IndexedDB**, enabling personalized analysis and driving **90%** of users to adjust display or theme settings based on feedback
- Versioned, documented, and maintained the project using **Git**

**Thesis Topic: Personalized ADAS using CARLA Simulator** Aug 2025 – Present

- Modified existing **ADAS features** in the **CARLA simulator** to personalize **Forward Collision Warning**, **Lane Keep Assist**, and **Adaptive Cruise Control** based on individual driver behavior
- Designed a **reinforcement learning pipeline** in **Python** to adapt **ADAS warning thresholds** and control decisions
- Evaluated the system using **user-in-the-loop driving simulations**; **90% of drivers** reported improved relevance of ADAS recommendations, with an **85% reduction in manual driver override frequency** compared to static ADAS

## TECHNICAL SKILLS

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**Languages:** Swift, Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R

**Frameworks:** FastAPI, Flask, React, Node.js, JUnit, Material-UI

**Developer Tools:** Xcode, Git, Docker, CI/CD (Travis CI), Google Cloud Platform, IntelliJ, PyCharm, VS Code

**Libraries:** Pandas, NumPy, SciKit-learn, Matplotlib, Seaborn

## PUBLISHED RESEARCH

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**Journal:** *Current Trends in Biotechnology and Pharmacy*[[Link](#)]

- **Parkinson's Disease Detection Using Tree-Based Machine Learning Algorithms**(2023).
- **Automated Detection of Breast Cancer Using Machine Learning: A Comparative Analysis**(2022).