

VARUN CHANDRA JAMMULA

+91-9989634158 | varunjammula@gmail.com | [LinkedIn](#) | [Google Scholar](#) | [Portfolio](#)
Visakhapatnam, India

EDUCATION

Arizona State University

Doctor of Philosophy in Computer Science

Tempe, AZ

Expected May 2027

Arizona State University

Master of Computer Science (CGPA: 3.55/4.0)

Tempe, AZ

May 2016

IIITD&M Kancheepuram

Bachelor of Technology in Computer Engineering (CGPA: 8.14/10.0)

Chennai, India

May 2014

RESEARCH INTERESTS

Active Perception, Autonomous Navigation, Adversarial Testing & Safety Validation, Probabilistic Diffusion Models, Formal Verification (STL), Connected & Automated Vehicles (CAV).

ACADEMIC APPOINTMENTS

GITAM (Deemed to be University)

Assistant Professor

Visakhapatnam, India

July 2026 to Present

- Teaching Programming for Problem Solving using C to 1st-year undergraduate students as a primary faculty and OOPS in Java as a secondary faculty.

SRM University, AP

Assistant Professor

Amaravati, India

June 2025 to June 2026

- Taught Principles of Soft Computing to 4th-year undergraduates, designing problem-focused sessions and guiding students through fuzzy logic, neural networks, and evolutionary techniques.
- Delivered Introduction to C Programming for 1st-year undergraduates, building foundational computational thinking through hands-on labs and structured programming exercises.
- Contributed to academic rigor at SRM University - AP by integrating active learning strategies and structuring assessments around Bloom's Taxonomy to foster higher-order thinking.

RESEARCH EXPERIENCE

Arizona State University

Research Assistant (Active Perception Group)

Tempe, AZ

May 2017 – Present

- Automated Driving Safety:** Developed a robust learning framework to integrate safety constraints, significantly improving the robustness and reliability of automated driving policies.
- Traffic Surveillance & Analysis:** Worked on the research and development of advanced traffic surveillance tools, utilizing multi-modal data from infrastructure sensors (Cameras, LiDAR, Drones) for comprehensive safety analysis.
- Privacy-Preserving Health AI:** Engineered applications for rehabilitation and physical activity monitoring, leveraging **Active Perception** and machine learning tools to maintain strict individual privacy standards.

INDUSTRY EXPERIENCE

Amazon Inc.

Software Development Engineer Intern

Seattle, WA

May 2015 – Aug 2015

- Engineered an internal self-service web application for automating bulk product bundle creation, increasing workflow efficiency and eliminating manual data entry bottlenecks.
- Architected a scalable backend using Java Servlets and AWS (S3, RDS/MySQL) to handle high-volume data uploads and automated error reporting.

Bally Technologies

Usability Experience Engineer

Chennai, India

May 2013 – July 2013

- Researched open-source e-commerce platforms and selected **Magento** to shift client product discovery from manual sales calls to a digital self-service model, enhancing portfolio visibility and product sales.
- Customized the platform to meet specific company requirements, including the implementation of a structured product catalog, corporate branding (logo/header modifications), and automated sales email workflows.

SELECTED PUBLICATIONS

1. Saravanan, N. K., Jammula, V. C., Yang, Y., Wishart, J., & Zhao, J. (2025). Enhanced cooperative perception through asynchronous V2I framework with delay mitigation for connected and automated vehicles. *SAE Journal of Connected and Automated Vehicles*. [\[Link\]](#)
2. Lu, D., Haines, S., Jammula, V. C., Rath, P. K., Yu, H., Yang, Y., & Wishart, J. (2024). Validation and analysis of driving safety assessment metrics in real-world car-following scenarios with aerial videos (*SAE Technical Paper No. 2024-01-2020*). SAE International. [\[DOI\]](#)
3. Jammula, V. C., Wishart, J., & Yang, Y. (2022). Evaluation of operational safety assessment (OSA) metrics for automated vehicles using real-world data (*SAE Technical Paper No. 2022-01-0062*). SAE International. [\[DOI\]](#)
4. Srinivasan, A., Mahartayasa, Y., Jammula, V. C., Como, S., Wishart, J., Yang, Y., & Yu, H. (2022). Infrastructure-based LiDAR monitoring for assessing automated driving safety (*SAE Technical Paper No. 2022-01-0081*). SAE International. [\[DOI\]](#)
5. Lu, D., Jammula, V. C., Como, S., Wishart, J., & Chen, Y. (2021). CAROM—Vehicle localization and traffic scene reconstruction from monocular cameras on road infrastructures. In *2021 IEEE International Conference on Robotics and Automation (ICRA)* (pp. 11725–11731). IEEE. [\[DOI\]](#)
6. Sprowls, M., Serhan, M., Chou, E.-F., Lin, L., Frames, C., Kucherenko, I., Mollaeian, K., Li, Y., Jammula, V., Logeswaran, D., et al. (2021). Integrated sensing systems for monitoring interrelated physiological parameters in young and aged adults: A pilot study. *International Journal of Prognostics and Health Management*, 12(4). [\[Link\]](#)
7. Caviedes, J. E., Li, B., & Jammula, V. C. (2020). Wearable sensor array design for spine posture monitoring during exercise incorporating biofeedback. *IEEE Transactions on Biomedical Engineering*, 67(10), 2828–2838. [\[DOI\]](#)

TECHNICAL SKILLS

Programming Languages	Python, C/C++, Java, C#, SQL, MATLAB
Machine Learning & AI	PyTorch, TensorFlow, Databricks, Probabilistic Diffusion Models
Simulation & Robotics	ROS, CARLA, Unity, Gazebo, V-REP, MORSE
Web Technologies	HTML, CSS, JavaScript, jQuery, Angular, PHP
DevOps & Tools	Docker, Kubernetes, AWS (S3, RDS), Git, L ^A T _E X, Beamer