

Shriya Sravani Yellapragada

+1 (408) 413-6948 | sy4@ucsc.edu | Santa Clara, CA, USA | LinkedIn | GitHub | Portfolio

EDUCATION

University of California - Santa Cruz

Master's, Natural Language Processing (AI)

September 2024 - December 2025

GPA: 3.8

Keshav Memorial Institute of Technology

Bachelor's, Computer Science & Engineering (AI & ML)

December 2020 - June 2024

GPA: 3.74

PROFESSIONAL EXPERIENCE

Adobe

Student researcher

Santa Clara, CA, USA

May 2025 - Present

- Working on a Multilingual NL to SQL System as part of a capstone project
- Designed and built a pipeline for data retrieval using SQL for multilingual input
- Modifying methods to generate a synthetic dataset for model training and evaluation
- Creating a framework/model for translation and retrieval of data

University of California - Santa Cruz

Researcher and member

Santa Cruz, CA, USA

March 2025 - Present

- Working in the AIEA Lab under Dr. Leilani Gilpin (ex-Sony)
- Developed a custom autonomous vehicle simulation environment on top of the CARLA simulator integrated with OpenAI's Gym interface.
- Engineered vehicle movement models and optimized obstruction-avoidance accuracy to 90%.
- Analyzed and compared reinforcement learning algorithms to enhance system robustness.
- Presented research findings and a technical poster at the UCSC Research Symposium (May 2025) titled "Comparing Reinforcement Learning Algorithms for Autonomous Vehicles."

University of California - Santa Cruz

Student researcher

Santa Clara, CA, USA

October 2024 - December 2024

- Built a Multilingual fact-checked claim retrieval system under the guidance of Dr. Amita Misra (Applied Science Head, Amazon) and designed and implemented a multilingual system to retrieve top-k relevant fact-checks for social media posts.
- Modified and evaluated multiple models including Logistic Regression, BiLSTM with Attention, and XLM- RoBERTa to improve cross-lingual retrieval accuracy to 0.87.
- Hyperparameter-tuned XLM- RoBERTa, achieving the highest standalone model accuracy of 0.78.
- Collaborated with a cross-disciplinary team to refine the fact-checking pipeline and streamline data preprocessing for multilingual datasets.

PROJECTS & OUTSIDE EXPERIENCE

LLM-as-a-Judge

2025 - 2025

- Engineered an all-to-all framework where LLMs acted as both generators and evaluators.
- Curated ELI5 and WritingPrompts datasets to test factual QA and creative writing outputs.
- Deployed 10 LLMs to score peers on coherence, relevance, creativity, and style.

Inventory Management System

2024 - 2024

- Developed a warehouse tracking platform integrating YOLOv8 with ByteTrack and BotSort.
- Achieved 0.93 accuracy, improving performance by 14.5% over YOLOv6 and 13.4% over YOLOv7.
- Built and augmented a 200-image dataset to enhance object detection precision.

Image Encryption using Blowfish Algorithm

2023 - 2024

- Designed a secure web app for image encryption and decryption using the Blowfish algorithm
- Developed the full stack in Java, HTML, CSS, and Servlets with an interactive encryption interface.

SKILLS

Skills: Python, Machine Learning, Deep Learning, Java, R, HTML/CSS, C/C++, MySQL, MongoDB, Pytorch, OOPS, Tensorflow, Pytorch, NLTK, Scikit-learn, Causal Inference, Maven, Git, Figma, Kubernetes, AWS, Microsoft Azure, Data Structures & Algorithms, Communication, Teamplayer, Fast learner, Detail-oriented, Creative

CERTIFICATIONS

- Google - Foundations: Data, Data, Everywhere
- Nvidia - Transformer- Based NLP
- Udacity - Transformer Models and BERT Model with Google Cloud
- BCG - GenAI Job Simulation
- Goldman Sachs - Software Engineering Job Simulation