SAMPRITI GOPISETTI

Los Angeles, California | 213-774-8828 | sampriti.gopisetti@gmail.com | LinkedIn | Portfolio | Github

EDUCATION

University of Southern California, Viterbi School - CGPA: 3.3/4.0 Los Angeles, California
Masters of Science in Computer Science August 2025-May 2027
- Courses: Analysis of Algorithms, Web Technologies
- Awards: 1st Place (Vercel Category) at GoodVibesOnly Hackathon

BNM Institute of Technology - CGPA: 9.84 / 10 Bengaluru, India
Bachelors of Engineering in Computer Science November 2021-June 2025
- Courses: Data Structures, Computer Networks, Operating Systems, Database Management Systems
- Awards: Gold Medalist (Rank 1 in Department), Best Project Award (ISL Interpreter) and Merit Scholarship Recipient (5 semesters)
- Leadership: Sponsorship and organization member, TATVA (Annual Fest)

SKILLS

ML Frameworks: PyTorch, TensorFlow, Keras, Scikit-learn, Hugging Face
Computer Vision & NLP: OpenCV, MediaPipe, Pytesseract, Generative AI (Gemini, GANs)
Data Science: NumPy, Pandas, Matplotlib, SQL (PostgreSQL, MongoDB)
MLOps & Cloud: Docker, AWS, Azure, Git, Linux, Grafana, RESTful APIs (Flask, Django)

INTERNSHIP EXPERIENCE

Synamedia Pvt. Ltd Bengaluru, India
Grad Intern February 2025-June 2025
- Built a data pipeline to programmatically parse and classify operational data with Python, culminating in interactive Power BI dashboards enabling agile decision-making
- Engineered an end-to-end testing suite with Playwright and Python, leveraging Docker to containerize each software release for consistent backtrace validation and reducing bug identification time from 3 hours to under 10 minutes (a 90% improvement)

Technodysis Pvt. Ltd Bengaluru, India
Robotic Process Automation Intern October 2024-January 2025
- Automated 10+ business processes by deploying a Power Automate solution to process files from Outlook, perform calculations in Excel, and distribute reports, achieving a 95% reduction in manual effort

ACADEMIC PROJECTS

PromptQuest California, US
Project developer | React, TypeScript, Python, GCP, Gemini AI | Winner, GoodVibesOnly Hackathon November 2025
- Spearheaded a full-stack gamified progression system to train users in prompt engineering, utilizing Generative AI (Gemini) to evaluate user inputs against a custom quality-scoring algorithm
- Implemented an automated feedback loop that detects vague inputs and optimizes context windows, successfully gamifying the prompt optimization process for over 10 levels of increasing difficulty

Indian Sign Language (ISL) Interpreter Bengaluru, India
Team Lead | Python, Flask, TensorFlow, OpenCV, MediaPipe | Publication (Springer) January 2025-April 2025
- Led the design of a TensorFlow/Keras CNN-LSTM for real-time ISL recognition, achieving 92.8% accuracy on a custom-processed Kaggle dataset
- Leveraged a Generative Adversarial Network (GAN) to synthesize realistic sign language gesture images, augmenting the training corpus to improve model generalization
- Architected an end-to-end translation platform with a Flask backend serving the AI model and a JavaScript frontend handling real-time video processing

Vehicle Number Plate Detection Bengaluru, India
Project developer | Python, OpenCV, Keras, Pytesseract, PHP | Publication (IEEE) May 2024-July 2024
- Engineered the development of a custom Keras model to enhance a Pytesseract OCR pipeline, boosting recognition accuracy to 82% across a 1,000+ vehicle image dataset from Kaggle
- Launched the computer vision system by building a RESTful API with PHP on an Apache server to expose the model for real-time recognition tasks