# SAMPRITI GOPISETTI

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

## EDUCATION

**University of Southern California, Viterbi School**                                    Los Angeles, California
**Masters of Science in Computer Science**                                              August 2025-May 2027
- Courses: Analysis of Algorithms, Web Technologies

**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), Merit Scholarship Recipient (5 semesters), IBM EcoEquify Finalist (Top 17%), and 1st Place in Java Hackathon
- Leadership: Sponsorship and organization member, TATVA (Annual Fest)

## SKILLS

AI & Machine Learning: TensorFlow, Keras, Scikit-learn, Pandas, NumPy, OpenCV, GANs, PyTorch
Backend & Deployment: Docker, AWS, Azure, Flask, Django, Git, Grafana, Linux, Jira
Languages & Databases: Python, Java, SQL, C++, MongoDB (NoSQL)

## 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

**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

**Automail AI**                                                                         Bengaluru, India
**Project developer | Python, Django, Scikit-learn, LLM | Publication (IEEE)**           July 2024-August 2024
- Developed and optimized a Naive Bayes classifier using a synthetically generated dataset of 50,000+ email classification keywords from an LLM, improving model accuracy by 25%
- Engineered a full-stack voice-to-email service by integrating the trained voice model into a robust Django/SMTP system

**Vehicle Number Plate Detection**                                                      Bengaluru, India
**Project developer | Python, OpenCV, Keras, Pytesseract, PHP | Publication (IEEE)**     May 2024-July 2024
- Spearheaded 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