

SAMPRITI GOPISETTI

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SUMMARY

A Computer Science graduate applying strong problem-solving skills to architect and deploy complex, full-stack machine learning applications. Expertise is validated by peer-reviewed publications with both IEEE and Springer

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

Languages: Python, Java, JavaScript, TypeScript, SQL, C++, PHP, C#, HTML/CSS
AI & Machine Learning: TensorFlow, Keras, Scikit-learn, Pandas, NumPy, OpenCV, Matplotlib, Power BI, MediaPipe, Pytesseract
Full-Stack Development: Django, Flask, React, NodeJS, Angular, Playwright, MongoDB (NoSQL)
DevTools & Platforms: Git, AWS, Azure, Docker, Power Automate, UiPath, Apache, Salesforce, Figma, Linux, Windows, Android, Jira

INTERNSHIP EXPERIENCE

Synamedia Pvt. Ltd Bengaluru, India
Grad Intern February 2025-June 2025

- Engineered an end-to-end testing suite using Playwright and Python to automate backtrace validation, decreasing bug identification time from 3 hours to under 10 minutes (a 90% efficiency gain)
- Built a data pipeline to programmatically parse and classify operational data with Python, culminating in interactive Power BI dashboards enabling agile decision-making

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 January 2025-April 2025

- Led the design of a TensorFlow/Keras CNN-LSTM for real-time ISL recognition, leveraging MediaPipe and OpenCV for hand tracking and achieving 92.8% accuracy (published by Springer)
- Architected a full-stack ISL platform with a Flask backend serving the AI model and a JavaScript frontend handling real-time video translation across 10+ interactive modules

Automail AI Bengaluru, India
Project developer | Python, Django, Scikit-learn, JavaScript July 2024-August 2024

- Developed and optimized a Naive Bayes classifier for a voice-command email system, improving model accuracy by 25% and cutting training time by 30% through data analysis with Pandas and Scikit-learn (published by IEEE)
- Engineered a full-stack voice-to-email application by integrating a voice model into the Django/SMTP backend and leveraging an LLM with prompt engineering to accelerate frontend development

Vehicle Number Plate Detection Bengaluru, India
Project developer | Python, OpenCV, Keras, Pytesseract, PHP May 2024-July 2024

- Spearheaded a number plate OCR pipeline, boosting Pytesseract's accuracy to 82% on 1,000+ vehicles with a custom Keras model, earning recognition at the Smart India Hackathon (publication by IEEE)
- Launched a full-stack recognition application, creating a PHP backend on an Apache server to expose the Python computer vision system via an API and to visualize model performance graphs generated with Matplotlib