SAMARTH NARAHARI MANDAGERE

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SUMMARY

Computer Science graduate with experience in AI research, frontend development, and computer vision. Skilled in building scalable systems and optimizing AI models, with a passion for accessibility and innovation

EDUCATION

University of Southern California — Los Angeles, USA
Master of Science in Computer Science — August 2025-May 2027

- Relevant course work: Analysis of Algorithms and Web Technologies

BNM Institute of Technology — Bengaluru, India
Bachelor of Engineering in Computer Science - GPA 9.51/10 — November 2021-June 2025

- Recipient of BNM Institute of Technology Merit Scholarship (Academic Excellence) and Best Project Award (ISL Interpreter)

TECHNICAL SKILLS

Languages - Java, Python, C/C++, JavaScript, SQL, HTML/CSS, PHP, MySQL, NoSQL, TypeScript
Frameworks and Libraries - React, NodeJS, Django, Pandas, NumPy, OpenCV, Keras, MediaPipe, Tensorflow, Flask, Angular
Operating Systems and Tools - Windows, Linux, Android, AWS, Azure, Git, Power BI, Tableau, WordPress

INTERNSHIP EXPERIENCE

Vylar (Lost Stories) — Bengaluru, India
AI Research Intern — September 2024-February 2025

- Collaborated with AI team to engineer a speech-to-text pipeline, achieving 89.7% multilingual and 100% English accuracy
- Spearheaded an AI-based story recommender, improving discoverability by 40% across 1K+ stories from various languages
- Launched full-stack system using React.js, Node.js, MongoDB and AWS to enable scalable content delivery

Vidatt Data Analytics Pvt Ltd — Bengaluru, India
Front End Developer Intern — September 2023-December 2023

- Redesigned React components in collaboration with backend engineers, delivered a 2× improvement in UI render efficiency
- Streamlined cross-team integration, contributing to a 30% increase in overall user retention with 100% development efficiency

Samsung PRISM — Bengaluru, India
Intern - Border Matching Worklet — June 2023-December 2023

- Developed AI models in Python using OpenCV and Skimage with 80% accuracy for border matching
- Attained 90% precision in border matching by optimizing threshold parameters (100–400pt)

ACADEMIC PROJECTS

ISL Interpreter - Python, OpenCV, CNN-LSTM, Computer Vision — Bengaluru, India
Team Lead — January 2025-April 2025

- Built a hybrid CNN-LSTM model on 2000+ ISL images/class to achieve 92.8% accuracy
- Deployed a Flask platform with 10+ interactive modules, delivering 100% accuracy in real-time gesture detection

Automail AI | Python, Django, Sklearn, Web Development — Bengaluru, India
Backend Engineer — July 2024-August 2024

- Collaborated with peers to design Naive Bayes classifier for voice-based email access, boosting accuracy by 25%
- Conducted statistical analysis and visualized data, improving model training performance by 30%

Automated Number Plate Recognition (ANPR) | YoloV8, Tesseract — Bengaluru, India
Machine Learning Engineer — April 2023-June 2023

- Integrated Greyscaling and Finding Abs-Difference for 82% accurate text extraction for 1000+ vehicle dataset
- Enhanced model by deploying Pytesseract over Keras as it showed 20% more accuracy for Text Extraction

KEY ACHIEVEMENTS

- Head Organizer, Tatva Fest 2024 - took initiative to secure sponsorships, coordinated with 5 subcommittees, and led a 120-participant esports event lasting 9 hours
- Winner - Java Hackathon; Finalist - IBM EcoEquify Hackathon; BNM Institute of Technology Merit Scholarship winner