Sai Siddharth Cilamkoti

 +1(716)808-4577 | @ siddharthcilamkoti@gmail.com | LinkedIn | GitHub | Portfolio | Buffalo, NY, USA

EDUCATION

University at Buffalo, SUNY   Aug 2023 - Jun 2025
Masters of Science in Computer Science and Engineering   *Buffalo, NY, USA*

Amrita Vishwa Vidyapeetham   Jul 2019 - Aug 2023
Bachelors of Technology in Computer Science Engineering with AI; GPA: 8.80/10.0   *Amritapuri, Kerala, India*

WORK EXPERIENCE

Research Intern   May 2022 - Aug 2022
INAI, IIIT-Hyderabad   *Hyderabad, Telangana, India*

- Designed innovative use of computer vision and deep learning methods to make significant improvements in automation and road safety projects at the organization.
- Developed and put into effect novel approaches, significantly increasing the effectiveness of the project. Achieved a notable improvement of 15% to 20% in the pipeline's accuracy, and reduced the latency of the pipeline by 30%.
- Initiated a transformative approach in refining models, increasing their dependability and accuracy while ensuring timely results.

Member and Mentor   Jan 2020 - Dec 2021
amFOSS   *Amritapuri, Kerala, India*

- Engaged fervently with amFOSS, the Free and Open Source Software club of my undergraduate college, contributing dynamically for nearly 2 years.
- Enthusiastically participated in and orchestrated diverse club events, showcasing a proactive role in event management, and exhibited adept coordination and leadership skills.
- Mentored a cohort of 5 juniors, cultivating their tech proficiency and steering their participation in national and international hackathons and competitions.

RESEARCH PUBLICATIONS

Robust and Scalable Network Monitoring System using Apache Spark   Mar 2022
ICMISC 2022

- Innovated and prototyped a network monitoring system, integrating Kafka and Spark for unmatched scalability.
- Implemented a machine learning-driven strategy for pinpointing optimal geographic proxy server locations, enhancing system efficiency and performance.
- Demonstrated project at ICMISC 2022, showcasing the practicality of the novel solution in robust network management and optimization.

PROJECTS

Undergraduate Project: Early Plant Disease Detection | *Python, PyTorch, OpenAI*   May 2023

- Developed an AI system as my undergraduate project, employing advanced computer vision techniques to rapidly identify early plant diseases through detailed leaf image analysis.
- Augmented the system's capabilities by seamlessly integrating an innovative chatbot, powered by OpenAI's daVinci Language Model. This feature provides users with valuable disease insights and guidance for effective plant management and prevention strategies.
  View on Github

Review Analyzer | *Python, Flask, Azure Cognitive services*   Feb 2022

- Engineered a dynamic web application to transform Amazon purchasing choices, and offer a novel approach to decision-making.
- Created an intelligent platform proficient in analyzing product reviews, extracting nuanced sentiments, and providing in-depth analysis through dynamic visual representations. Additionally, provided comprehensive product ratings and real-time availability updates, achieving an impressive 50% improvement in user engagement.
  View on Github

SafetyEye | *Python, OpenCV, OpenCV DNN*   Nov 2021

- An ingenious computer vision solution for precise human recognition for enforcing social distancing in public spaces.

- Leveraged YOLO architecture to detect and monitor human presence and distances with exceptional accuracy. Devised a pipeline achieving a significant 20% accuracy boost compared to conventional video-based distance measurement algorithms, preserving the performance even with varying camera orientations on streets.
  View on Github

ACHIEVEMENTS

Lights, Camera, Haction by MLH(Major League Hacking): Achieved First Place

hello:world by Cal Hacks team of UC Berkely: Best Hack in Educational Track Award

New friends, New Hacks Hackathon organized by MLH(Major League Hacking): Achieved Third Place

AI Singapore Summer School 2021: Accepted to attend the summer school **Certificate**

HackMIT 2021: Got Selected to attend the hackathon remotely

SKILLS

Programming Languages: Python, Java, SQL, MySQL, C++

Developer Tools: Git, VS Code, Eclipse, Docker

Libraries: Flask, Pytorch, Tensorflow, Selenium, Django

OS: MacOS, Linux, Windows