Sai Krishna Prathapaneni

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EDUCATION

Master of Science, Computer Engineering *Sep 2022 - Apr 2024*
New York University

Bachelor of Technology, Electronics and Communication Eng. *Aug 2018 - Jul 2022*
Sreenidhi Institute of Science and Technology GPA: 3.6

EXPERIENCE

Technical Associate Intern for Analytics, Meritus Intelytics Pvt Ltd *Mar 2022 -June 2022*

- Improved DAX expression evaluation performance by 400% by migrating data models from **PowerBI** to **SSAS Tabular.**
- Reduced 10% resource hours by automating end-user communication using **SSMS, SQL Server SPs, and Python.**
- Built pipelines for Dataset extraction from VPN networks, REST **API**, and websites using Python crawlers and **SSIS.**

Product Development Intern, Eco Orbit Solutions Pvt Ltd *May 2021 - Jan 2022*

- Owned End-to-end Design and development of Material Sorting algorithm O(n) & Segregation system with SCARA Robot.
- Implemented a vision system that achieved high picks per minute rate with a robot utilization rate of **˜90%.**
- Developed pipeline for training YOLO v4 and YOLO v5 in Darknet framework and OpenCV APIs over a Linux env.
- Achieved a **Mean Average Precision (MAP) of 95%** with negative training using counter examples**.**
- Streamlined image augmentation and generated over **100k images** for object detection.

Data Science Intern, Einsehen Pvt Ltd *May 2021 - Jul 2021*

- Automated & deployed data extraction on Linux server on AWS from EU open-source datasets through SwaggerHub.
- Developed dashboard on Apache Superset for visualizing unemployment trends using ARIMA, auto regressors, and RNN with Tensorflow APIs.

Embedded Systems Intern, Microchip Technology Inc. *May 2020 - Jun 2020*

- Integrated Matlab and AT-Mega controllers using the ResNet50 deep learning Model for speed and steering control.
- Achieved model accuracy of **80% for recognizing traffic signs by the modelled vehicle in a simulated scenario.**
- Written and presented the project at ICTSGS International Conference (2021).**Link**

Technical head, The Robotics Club, Sreenidhi Institute of Science and Technology *Jul 2020 - May 2021*

- Mentored 120+ students for over a year in developing and implementing Robotic projects to completion
- Successfully delivered comprehensive embedded programming fundamentals, webots, and microcontrollers (e.g. ATmega, ESP) sessions to a group of 120+ students, both online and in-person.
- Achieved 20% growth in club participation by conducting sessions and workshops on Robotics for beginners.

PROJECTS

Autonomous Luggage Carrier

- Developed an Autonomous Robot for luggage carriage at Airports along with a team of 3.
- Integrated NodeMCU(Wifi Unit), Blynk Mobile application, and other sensors.
- Written and presented the project at the ACCAI-2022 conference. **Link**

Ksheera(Remotely Operated Underwater Vehicle)

- Designed Autonomous ROUV for probability estimation of aquatic life using Xbee Modules and Thingspeak IoT service.
- Achieved a Project funding of over Rs. 1.5Lakh for prototype development as an internal R&D grant.
- Won Gold medal at ENNOVATE-2021 for idea pitching.
- Presented "A Review on Latest Trends in Development of Remotely Operated Marine Robots" at ICBNA-22 conference.

NPHS (National Portal for Health Services) Website

- Developed a government website with a team of 3 for people struggling with the complexity of health schemes.
- Technologies used Flask, SQL server, Bootstrap, and JS.

SKILLS

Technical Skills: Visual studio, Webots, Darknet, Apache superset, SQL server, Deep learning, Computer Vision, Python, C/CPP, Java, MATLAB, JS, HTML, CSS, Docker, Git, Flask, Django, SciPy, Pandas, TensorFlow, Matplotlib, Embedded Systems, Digital Logic Design, Micro Controller Architecture(RISC V, AVR, x86).

Other Skills: Tableau, Project Management, PowerPoint, Word, Google Suite, Digital Signal Processing