

Sai Phani Pallapothu

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Experience

Lean Innovation Labs **May 2023 - Present**
Full Stack Developer Intern **Reston, Virginia, United States**
Developing an LLM based tool that builds a management portal, creating workflows and management views from requirements in plain English.

Microsoft **July 2021 - August 2022**
Software Development Engineer **Hyderabad, Telangana**
Built "AutoOps Bot" for Azure services management via Teams app; automated data Inbounding/Outbounding between Workday and SQL Db.

Microsoft **Jan 2021 - June 2021**
Software Development Engineer Intern **Hyderabad, Telangana**
Designed Reuse Dictionary project for sharing reusable work within Microsoft through a React, TypeScript, .NET based tool.

Microsoft **May 2020 - July 2020**
Software Development Engineer Intern **Hyderabad, Telangana**
Developed Feedback Engine, a tool that extracts user activity data as feedback to improve search results on Microsoft's Procurement Website.

Education

Stony Brook University **August 2022 - December 2023**
GPA: 3.84/4
Teaching Assistant for CSE 337: Scripting Languages; Ranked #24/78 @ ICPC Greater NY Regionals 2022

Amrita School of Engineering **June 2017 - June 2021**
Bachelor of Technology in Computer Science and Engineering, GPA: 9.1/10 with Distinction

Projects

PASTA Inference Classification **November 2022**
Trained models to classify if a given story warrants an inference statement, improving prediction of consistency with the world state.

Shadow Removal using Diffusion **December 2022**
Developed a model that removes shadows in images and restores content with Diffusion technique for enhanced image processing.

Real-time Object Detection and Segmentation using Raspberry Pi **June 2020**
Created a system for detection and segmentation of components, enhancing computer vision capabilities for practical deployment on Raspberry Pi.

Weighted Ensemble of CNNs to handle loss due to resizing for Object Recognition **December 2020**
Devised a model using multiple CNNs with different aspect ratios, improving object recognition by combining the outputs for final class probabilities.

Technical Skills

- Languages: Python, Pytorch, TensorFlow, Java, C++, C
- Frameworks & Libraries: PyTorch, TensorFlow, Keras, OpenCV
- Skills & Technologies: Machine Learning, Deep Learning, Computer Vision, NLP, Signal Processing, Reinforcement Learning, Robotics

Extra-Curriculars

Senior Member of Code@Amrita **June 2018 - July 2021**
Conducted workshops on Data Structures, Algorithms, taught programming languages; Hosted Competitive Programming contests.

Event Lead and Manager @ Anokha Techfest **February 2020**
Hosted Kaggle contest and competitions blending diverse Computer Science expertise.

Others

Course Work: Teaching Assistant for CSE 337: Scripting Languages