Sai Phani Pallapothu

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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

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.

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