SAI PHANI PALLAPOTHU

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Education

Stony Brook University   **August 2022 – December 2023**
*Master of Science in Computer Science, **GPA**: 3.84/4*   *Stony Brook, New York*
- Teaching Assistant for CSE 337: Scripting Languages; Graduate Student Researcher in Reinforcement Learning;
- Courses taken: Applied AI Topics (ChatGPT); Reinforcement Learning; Computer Vision; Natural language processing

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

Education

Experience

Lean Innovation Labs   **May 2023 - Present**
Full Stack Developer Intern   *Reston, Virginia, United States*
- Developing an LLM (like GPT) based tool that builds a management portal for a company using AI; it creates workflows, custom databases, and management views following specific business rules, all from requirements given in plain English.

Microsoft   **July 2021 – August 2022**
Software Development Engineer   *Hyderabad, Telangana*
- Built a chatbot called "AutoOps Bot", which allows the users to complete mundane tasks like managing Azure services effortlessly via Teams app, which saves around 40 hours/month of team effort.
- Automated data Inbounding and Outbounding process from Workday to Microsoft's SQL Db, and vice versa.
- Designed, developed and maintained tools for Microsoft's finance forecasting and budgeting management.

Microsoft   **Jan 2021 - June 2021**
Software Development Engineer Intern   *Hyderabad, Telangana*
- Designed and implemented Reuse Dictionary project - a React, TypeScript, .NET based tool for sharing any reusable work done within Microsoft organization and also allows searching for works published across multiple sites like GitHub, nugget repository, Azure DevOps, etc., from a single place.

Microsoft   **May 2020 - July 2020**
Software Development Engineer Intern   *Hyderabad, Telangana*
- Built Feedback Engine (on Microsoft's Procurement Website), a tool that extracts user activity data as feedback using **Azure** Application Insights and improves the search results based on users' actions.

Research & Projects

RoverArm | *Robotics, Reinforcement Learning, Computer Vision, Pytorch, Transformers, Generative AI*   **May 2023**
- Built a Rover with Robotic Arm and trained it using Reinforcement Learning and Generative AI to pick objects from a tray inside a room.

Shadow Removal using Diffusion | *Computer Vision, Python, Pytorch, Transformers, Diffusion*   **December 2022**
- A deep learning model that removes the shadow in an image and restores the image contents using Diffusion technique.

PASTA Inference Classification | *NLP, Python, TensorFlow, Language Modeling, RoBERTa, T5*   **November 2022**
- A model to classify if the given story warrants the given inference statement. Models are trained to understand the world state for the given story to predict whether the world state is consistent with the inference statement.

Weighted Ensemble of CNNs to handle loss due to resizing for Object Recognition   **December 2020**
- A model that uses multiple CNNs of different shapes (portrait, square and landscape) instead of a single CNN for Object Recognition problems, and takes the weighted average of multiple CNN outputs for calculating final class probability.

Real-time Object Detection and Segmentation using Raspberry Pi | *Python, TensorFlow, YOLO*   **June 2020**
- A robust system for detection and segmentation of microcontroller components using deep learning and computer vision, deployed in Raspberry Pi.

CodeOnDroid | *Java, Android, XML, Firebase* **August 2019**
- A mobile "Compiler and Editor" Android application with language-specific custom keyboards for popular programming languages like Python, Java, C++ and C along with variable tracking, etc features for programming with ease.

Quiz App | *MERN Stack, ReactJs, Javascript, HTML, NodeJs, MongoDB* **March 2020**
- An online Quiz Application platform for students to attempt quizzes created by their faculty while also making use of features like auto evaluation, scorecard viewer, online discussion portal, previous quiz analysis etc.

Bug Fixing Assistance Portal | *ReactJs, HTML, Java backend, Http Servlet, Apache Tomcat, XML* **January 2021**
- A portal to connect users and technical support in order to update users on bugs that need to be addressed and solved.

Technical Skills

Languages: Python, MatLab, Java, C++, C, C#, .NET, HTML, CSS, JavaScript, TypeScript, SQL
Frameworks and Libraries: PyTorch, TensorFlow, Keras, OpenCV, Scikit learn, SciPy, Flask, Pandas, NumPy, Microsoft Bot Framework, ReactJS, ExpressJS, NodeJS, NestJs, Flask, Django
Skills and Technologies: Deep Learning, Computer Vision, NLP, Reinforcement Learning, Robotics, Internet of Things

Leadership & Extracurricular

Senior Member of Code@Amrita *June 2018 - July 2021*
- Conducted Workshops teaching Data Structures, Algorithms, and programming languages (Python, Java, C++).
- Hosted Competitive Programming contests, and Editorial sessions for our and Codechef contests.

Event Lead and Manager @ Anokha, Amrita's Techfest *February 2020*
- Designed and hosted a Kaggle contest named "AI Adept" that involves solving a complex machine learning problem with a small dataset in a limited time.
- Designed and hosted a competition named "Figure 'em all" that involves teams solving problems from various expertise of Computer Science like competitive programming, code golf, capture the flag, and reverse engineering.