

ARYAMAN SRIRAM

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Technical Skills

Python, C++, ROS, Pytorch, Tensorflow-keras, Flask, Kaldi

Educational Qualification

B.Tech Computer Science and Engineering, VIT Vellore,

July 2017 - July 2021

CGPA: 8.99/10

Professional Experience

Research Assistant, SPIRE Lab, IISc Bangalore,

Apr 2021-Present

- Currently working on developing ASR models for detection of grammatical errors in speech
- Working on Kaldi and Espnet recipes

Deep Learning Intern, Wildly.org

Nov 2020 - Apr 2021

- Worked on developing audio classification models for wildlife sounds using VGGish network as a backbone, achieved an accuracy of 0.85.
- Also worked on adapting Panns model for classification of bird sounds

Projects

Memenet

- Worked on developing a multimodal learning for classifying offensive memes using meme images and text as input.
- Used transfer learning on a combination of BERT and Resnet
- Achieved an AUROC of 0.678

Gesture Controlled Car

- Used hand keypoint detection to recognize hand gestures and integrated with ROS to control a car in a gazebo environment.
- Project was selected as an one of the 10 entries from college to the Smart India Hackathon, a nation wide hackathon.

Mars Rover Prototype

- Worked as an autonomous subsystems engineer for the mars rover prototype for competitions like the European Rover Challenge 2019 and University Rover Challenge 2020.
- Mostly worked on ROS and building an autonomous system for successful rover navigation
- Also worked on integrating ROS package for AR tag detection and using them to send navigation messages to the controller of the rover.
- Contributed to other departments like Mechanical, Electrical for smooth development of the rover.

Publications

Performance Comparison of Deep Learning Algorithms for Sentiment Analysis

ICICNIS 2020

- Used BERT to improve accuracy of sentiment classification from 83% TO 84.92% with fewer epochs of training
- Data used was a collections of 1600000 depression related and positive tweets

Extracurricular Achievements

- Appointed Vice Captain of SEDS-VIT, Projects Division for the year 2019-2020
 - Had the responsibility for smooth functioning two project teams Vyadh and Ardra part of the chapter.
 - In charge of recruitment procedures, management of junior members and communicating with college administration
- Received Special Achiever's award from VIT University for outstanding extracurricular achievement.