

Hemanth Kumar Sheetha

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<https://researchofhemanth.github.io/>

Github: @researchofhemanth

Programming Languages: Python,C++,C,Java,Go

EDUCATION

MLR Institute of Technology,Hyderabad

September 2017–August 2021

- **Bachelors of Technology(B.Tech)**
- **GPA : 8.34(Until 3rd Year 2nd Semester)**

MOOCs:

Coursera - Deep Learning Specialization,Introduction to Tensorflow, Convolutional Neural Networks in Tensorflow by DeepLearning.ai,Python Programming by Edx(MITx),Secure and Private AI Scholarship Program by Facebook(Udacity),Natural Language Processing using Tensorflow by DeepLearning.ai, Modern Robotics Specialization(Ongoing) in Coursera.

EXPERIENCE

Undergraduate Researcher, MLRIT Research Centre

November 2018–Present

Advisor: Dr.Laxmi Lingutla

- Did research on Phishing Website Detection using Deep Learning.
- Analysed the Accuracy and Performance of Fake News Detection Datasets like LIAR and FEVER by implementing various RNN models.

Advisor: Mrs.Anila Rao

- I am currently working on Parkinson Disease Analysis using the Characteristics of Speech Data of the Patients.

Data Analyst Intern and AI Team Lead, Aided.ai

May 2019–September 2019

- I've curated and preprocessed Face Expression Datasets and created a data pipeline for the models.
- I've developed and deployed a Safe and Accurate Face Expression Detection Model using Tensorflow's Object Detection API and also trained Transfer Learning Models including InceptionNet,VGG-16 and ResNet.
- This model is used to analyse children's behavior and identify whether they possess characteristics of autism.

Independent Research

- I've been reading and re-implementing many existing Deep Learning and Reinforcement Learning papers recently.
- My focus in machine learning shifted more towards Reinforcement learning,Meta learning and Unsupervised Learning recently.

Projects

- Implementation of Policy Gradient Methods like Vanilla Policy Gradients(with and without baseline),PPO and Actor-Critic methods using Tensorflow.
- Implementation of Deterministic Policy Gradient Methods in Tensorflow.
- Implementation of VAE variants on MNIST Dataset using Tensorflow.
- Deep Q Learning Implementation using Tensorflow 2.0.
- Implementation of GANs on Fashion MNIST Dataset using Tensorflow.
- One Shot Classification using Fashion MNIST Dataset.
- Plant Classification using Deep Convolutional Neural Networks.
- Phishing Website Detection using Deep Learning.
- Q Learning Implementation of Frozen Lake and CartPole Environments
- Mobile App for Plastic Waste Segregation.
- Firefox Extension for Generating Random Articles from 30,000 existing articles.
- Handwritten Text Detection using Convolutional and Recurrent Neural Networks(Ongoing).

LEADERSHIP AND AWARDS

- Achieved 1757th rank worldwide in Google HashCode 2019
- Represented the University for Smart India Hackathon 2020
- Best Student User of the Library 2019.
- Won 2nd Place in SAE Regional Student Project Category.
- Won Best Student Project Award among 200 final teams and Global Nominee in NASA Space Apps Hackathon, Telangana, India
- Won 4th Place among 100 teams in Mahindra Ecol Hackathon, Telangana, India
- Completed 5 pull requests in HacktoberFest 2018
- Qualified upto CodeChef's SnackDown Round 1B
- Finalists of VNR Turing Cup Competition
- NeurIPS 2020 Volunteer for DAQA Workshop
- EMNLP 2020 Volunteer

PUBLICATIONS

A Survey on Fake News Detection in Social Media using Deep Neural Networks
By L.Alekya, L.Lakshmi, G.Sushmita, **S.Hemanth**

Phishing Website Detection using Deep Learning (Yet to be published)
By Laxmi Lingutla, Kiran Ganipalli, **Hemanth Kumar Sheetha**

