Hemanth Kumar Sheetha

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Github: @researchofhemanth

https://researchofhemanth.github.io/

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

EDUCATION

University of Montreal(Universite de Montreal) ***September 2021-Present***

- ***Masters in Computer Science(Prof. MSc from MILA)***
- ***GPA: N/A***

MLR Institute of Technology,Hyderabad ***September 2017–August 2021***

- ***Bachelors of Technology(B.Tech)***
- ***GPA : 8.4***

MOOCs and Relevant Courses(Including Audited Courses):

Coursera **-** *Deep Learning Specialization,Introduction to Tensorflow, Convolutional Neural Networks in Tensorflow by DeepLearning.ai,Python Programming by Edx(MITx),Natural Language Processing using Tensorflow by DeepLearning.ai, Modern Robotics Specialization(Ongoing) in Coursera, IFT 6758 Data Science, IFT 6390 Introduction to Machine Learning, CS 231N CNN for Visual Recognition, CS 234 Reinforcement Learning, CS 330 Deep Multi task and Meta Learning(Still Auditing)*

EXPERIENCE

Undergraduate Researcher, MLRIT Research Centre ***November 2018-March 2020***

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

- Worked 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 like reading and re-implementing many existing Deep Learning,Meta Learning,Unsupervised Learning and Reinforcement Learning papers.*

Projects

- *Deployed a Docker based Machine Learning Flask Application which predicts real-time NHL goals based on different features extracted from the game events.*
- *Created NFL Shotmap Visualization after scraping the data from NFL API*
- *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 Picking Random Articles from 30,000 existing articles.*

LEADERSHIP AND AWARDS

- *UdeM Exemption Grant - CSUP*
- *B.Tech Partial Academic State Government Scholarship*
- *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 Ecole Hackathon, Telangana, India*
- *Completed 5 pull requests in HacktoberFest 2018*
- *Qualified up to CodeChef's SnackDown Round 1B*
- *Finalists of VNR Turing Cup Competition*
- *NeurIPS 2020 Volunteer for DAQA Workshop*
- *EMNLP 2020 Volunteer*

PUBLICATIONS

*N. T. Chitra, R. Anusha, **S. Hemanth Kumar**, D. S. Chandana, C. Harika and V. U. Kumar, "Satellite Imagery for Deforestation Prediction using Deep Learning," 2021 5th International Conference on Intelligent Computing and Control Systems (ICICCS), 2021, pp. 522-525, doi: 10.1109/ICICCS51141.2021.9432087.*

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

*By Laxmi Lingutla,Kiran Ganipalli,**Hemanth Kumar Sheetha***