Suyog Pipliwal

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Education

Queen Mary University of London **Sept. 2021 – Sept. 2022**
MSc Artificial intelligence *London, United Kingdom*

Indian Institute of Information Technology Guwahati **June 2015 – May 2019**
B.tech Computer Science and Engineering *Guwahati, India*

Experience

Queen Mary University of London **May 2022 – Present**
Research Assistant (RA) *London, UK*

- I am working as a Research Assistant under Prof. Patrick Healey, on a project in collaboration with East London NHS Foundation. With the aim to deliver an app-based intervention for community mental health care remotely.

Antares.Tech **May 2019 – Feb 2020**
Full stack developer *Noida, India*

- After completing my bachelor I started working as a full-stack developer. Working with my product managers to ideate software solutions.
- My day-to-day work includes designing, developing, and maintaining fully-fledged and functioning platforms with databases or servers. Design and draw architecture for client-side and server-side. Writing clean and maintainable code.

Projects

Acoustic Based Footstep Detection in the Wild| *Master's Thesis* **April 2022**

- It is an industry collaboration project with Miicare that works in healthcare sector.
- In this project, we are trying to develop a novel method to detect certain diseases that affect the body's locomotion based on the sound recording of patient.
- We experimented with various models and different mechanisms to extract features and perform classification. I have experimented with various feature extraction methods like CNN, primary capsule network and attention based mechanism.

Network Wide Measurement Using Programmable Switch| *Bachelor's Thesis* **Feb 2019**

- Aim of this project was to collecting and analyzing network traffic from distributed switches in real time.
- Existing method have a trade-off between memory used and the accuracy of result with a challenge of limited number of read and writes and size of memory available.
- We studied different existing methods for estimating network parameters and experiment with them. This project has given me a in-deapth understanding of SDN architecture and it working principals.
- Experimentation was done on the institution server and we were able to extract parameters on the university network.

Deeper Networks for Image Classification **Feb 2022**

- The aim of this project was to design a deep network for image classification using feature extraction by VGG and ResNet.
- This model was trained using MINST and Cifar-10 dataset and achive classification accuracy of 99.7% and 84.9% respectively.

Online Programming Evaluation Platform **Feb 2018**

- To design an web based application for hosting programming contest.
- Currently hosted on IIIT internal server for hosting programming contest and used by Ist and IInd year student for lab assignments.

Technical Skills

Programming and Languages:Python libraries (PyTorch, torchaudio, Tensorflow v2, Librosa,NumPy, Scikit-Learn, Matplotlib, Tensorboard,imbalanced-learn, , networkx), SQL, Javascript(React, React-native, Nodejs).
General:Machine Learning, Deep Learning, Neural Networks (CNNs,RNNs, generative models, transformers, autoencoders), Linear Algebra, Information Retrieval, Natural Language Processing(Text classification, Neural Machine Translation, Named entity recognition)
Technologies/Frameworks: Linux, Git, LaTeX