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EXPERIENCE

HCL Technologies | ***Technical Lead*** Aug. 2021 – Present

- Worked on HCLs Roboops tool which is a scalable, extensible and unified application for robot controllers build on ROS2 using python. This provides various automation solution
- Created various POCs using HCLs eDAT application and Roboops including automation testing of VR devices , POS machines and other medical devices.
- Used various deep neural networks like YOLO and Fast-RCNN to fine tune and implement object detection on custome data set.
- Filed patents on various IPs for HCL.
- Fixed various bugs in existing projects

IIT Madras | ***Project Associate*** Aug. 2017 – Jul. 2019

- Implementation of deep learning and machine learning models on various image data set such as MRI, Polyp , Retinal etc.
- Models like Unet, mask-RCNN were trained using fine tuning and transfer learning methods. Data sets were pre-processed like augmentation, normalization were used

EDUCATION

Master of Technology | ***Electronics and Electrical Engineering*** | **CGPA: 7.66/10** Aug. 2019 – May 2021
Indian Institute of Technology, Guwahati Guwahati, A.S, India

Bachelor of Technology | ***Electronics & Telecommunication Engineering*** | **CGPA: 8.02/10** Aug. 2012 – May 2016
Veer Surendra Sai University of Technology, Burla Burla, O.R, India

Intermediate | ***CBSE*** | **Percentage: 87** Aug. 2010 – May 2012
Vidyamandir sr .sec school, Kota Kota, R.J, India

Xth class | **Percentage: 91.2** Aug. 2009 – May 2010
K.V C.M.E , PUNE Pune, M.H, India

AREAS OF INTEREST

Deep learning, Machine learning, Digital Signal Processing

TECHNICAL PROFICIENCY

Operating Systems: Linux, Windows.
Programming: Python, Powershell, C#*, .NET*, c*, c++* .
Tools: OpenCV, MATLAB, TensorflowRT
Scientific Libraries: Tensorflow, Scikit Learn, Pytorch.
Data Analysis: Numpy, Pandas.
**Elementary proficiency*

PROJECTS AND RESEARCH

Patent: System and Methods of generating sample lables May '21 to March '22

- We filed a patent where we discuss on various methods of generating annotated images. These methods are useful when have limited data and want to automate annotation process.

Reconstruction of MRI images from K-space March '18 to May '19

- Neural networks like 1D Automap and Automap used for reconstruction of MRI from K-space obtained. K-space is the raw data obtained and represent the DFT of the image.

Implementing MLP for MNIST data classification JAN'18 to March'18

- MNIST data were classified using MLP. The network accuracy was improved using data augmentation and fine-tuning parameters like initialization, learning rate, number of epochs

Using LSTM to convert a binary string to its 2s complement Aug18 to Dec'18

- We train a LSTM to learn the 2s complement of binary numbers. The network was capable of learning the conversion and had above 99 percent accuracy in converting the binary string.

RELEVENT COURSES DONE

- Machine Learning for Image Processing
- Computer Vision
- Linear Alzebra and Probability
- Deep Learning

ACHIEVEMENTS

* GATE 2017: Secured AIR 1973 out og 0.14 million candidates

POSITIONS OF RESPONSIBILITY

Teaching Assistant at Dept of EEE at IIT Guwahati July '20 to jun'21

I worked with the faculty in formulating their assignments and evaluation of students for device physics course .