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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.
- 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: 7.64/10** 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

Robotics, Computer Vision, Deep learning, Machine learning, Digital Signal Processing

TECHNICAL PROFICIENCY

Operating Systems: Linux, Windows.
Programming: Python, Powershell, C#*, .NET*, c*, c++* .
Tools: ROS2, OpenCV, Webots, MATLAB, Cadence, HFSS
Scientific Libraries: Tensorflow, Scikit Learn, Pytorch.
Data Analysis: Numpy, Pandas.
**Elementary proficiency*

PROJECTS AND RESEARCH

Low power amplifier design for transmitter architecture May '19 to March '20

(Guide : Dr. Mahima Arrawatia)

- Implementing an Ultra Low Power amlifier for wirless sensor networks. We operate the MOS in the sub-threshold region in order for low power usage.

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

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 .