

**Anurag Dash**

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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**

Indian Institute of Technology, Guwahati

Aug. 2019 – May 2021

Guwahati, A.S, India

Bachelor of Technology | Electronics & Telecommunication Engineering | CGPA: 8.02/10

Veer Surendra Sai University of Technology, Burla

Aug. 2012 – May 2016

Burla, O.R, India

Intermediate | CBSE | Percentage: 87

Vidyamandir sr .sec school, Kota

Aug. 2010 – May 2012

Kota, R.J, India

Xth class | Percentage: 91.2

K.V C.M.E , PUNE

Aug. 2009 – May 2010

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 amplifier for wireless 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

RELEVANT COURSES DONE

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

ACHIEVEMENTS

- GATE 2017: Secured AIR 1973 out of 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 .