



## EDUCATION

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Program	Institution	%/CGPA	Year of completion
Dual Degree in Civil Engineering	Indian Institute of Technology Madras, Chennai	7.63	2022
XII	Vijayagiri Public School	95	2017
X	Greenvalley Public School	100(full A1)	2015

## SCHOLASTIC ACHIEVEMENTS

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- Rank 3816 in JEE Advanced 2017
- Rank 3780 in JEE Mains 2017

## COURSE WORK

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- Machine Learning Course from Coursera, Andrew Ng
- Deep Learning Specialization from Coursera, Andrew Ng
- Systems Engineering for Deep Learning
- Deep Learning for Computer Vision
- Deep Learning for Natural Language Processing
- Probability and Statistics
- Differential Equations
- Python, Flask, HTML Youtube courses.

## LABS

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- Not involved in any lab yet but have done several assignments on Computer Vision through Google Colab notebooks. Familiar with AWS, GCP.

## SKILLS

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- Python
- Pytorch
- Tensorflow /Keras
- Flask
- HTML
- CSS
- Numpy, Scipy, Pandas
- Matplotlib, Seaborn, scikit-learn
- ONNX
- C/C++
- AVX Programming
- Linux
- Machine Learning
- Deep Learning - CV/ NLP

## PROJECTS

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- **Worked on Kaggle competitions**
  - Flowers classification - Classification of flowers using TPUs - [Repo Link](#)
  - Melanoma cancer classification - Won Silver medal - Used Efficientnets with LGB stacking - [Repo Link](#)
  - Sentiment analysis - Finding a part of a sentence responsible for a given sentiment - [Repo Link](#)
- **Data Analysis on Transaction Dataset**
  - EDA, Clustering, Predicting items bought together using KNN
  - See [Repo Link](#)
- **Basic Flask Microblog app**
  - Created a basic microblogging app with the Flask framework.
  - See [Repo Link](#)
- **CNN Experiments on CIFAR-10 Dataset**
  - Hyperparameter tuning, occlusion test, filter analysis - [Repo Link](#)
  - Trying different regularization techniques - [Repo Link](#)
  - Transfer Learning and Augmentations - [Repo Link](#)
- **Alexnet optimization with AVX**
  - Using C++ and AVX instruction tried to optimize the time taken in a single forward pass.
  - See [Repo Link](#)
- **Hyperparameter Tuning with MLFLOW and Pruning**
  - Hyperparameter tuning with Fashion MNIST Dataset
  - Finding best Pruning configurations
  - See [Repo Link](#)
- **Worked on ICCV 2019 paper SinGAN: Learning a Generative Model from a Single Natural Image**
  - Tried to play with the hyperparameters, add extra loss functions, and change the model architecture for better outputs.
  - Report [Repo Link](#)
- **Basic Coursera projects**
  - Deploy a TensorFlow model with Flask - [Link](#)
  - Diagnosis with Support Vector Machines - [Link](#)
- **Worked on MLPERF inference benchmarks.**
  - Converted Pytorch pre-trained models to ONNX and ran them in the web browser using JavaScript.
  - Report [Repo Link](#)

## PROFESSIONAL EXPERIENCE

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### • POSITIONS OF RESPONSIBILITY

- Envisage Coordinator - Shaastra 2019 - IIT Madras (June 2018- Jan 2019)
  - Involved creating a Speed painting Robot which was able to process any image and paint it using the punching mechanism
  - Applied for a patent for this project.

## PUBLICATIONS

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- No publications yet.

## OBJECTIVE

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- With a background in Data Science and engineering, I have a great passion for scaling up the ML/DL knowledge I have for real-world applications.
- Did most of my learning from free online courses and Kaggle Discussions. I have got a good experience in coding with Python and have a knack of quickly picking up new languages/frameworks.