

Pranav Garg

Aspiring Software Developer

A straight shooting go-getter with an unquenchable thirst for knowledge and a large appetite for hard work



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WORK EXPERIENCE

Research Assistant Cognition Lab, IISc

01/2019 – Present Bangalore

I am currently pursuing my undergraduate thesis at Cognition lab under the guidance of Professor Sridhar Devarajan. After getting an overview of the lab, I will be assigned a project.

Intern

Google Summer of Code 2018 - Ruby Science Foundation

05/2018 – 08/2018

I have developed a scientific plotting library for Ruby, "Rubyplot" from scratch

System Admin

Kosambi Administration and maintenance team

12/2017 – 11/2018

Goa

In charge of the management of the cluster computer (Kosambi) in BITS Pilani

HPC Co-ordinator

Sandbox Makerspace

02/2017 – 11/2018

Goa

I was in charge of setting up and maintaining GPU's for HPC. The Makerspace is in BITS Pilani Goa

Vice President

IEEE Student Branch

04/2017 – 04/2018

Goa

BITS Pilani

Research Intern

Indian Space Research Organization (ISRO)

05/2017 – 07/2017

RRSC-W Jodhpur

I lead the project for object detection in Satellite imagery

EDUCATION

B.E. Electrical and Electronics Engineering (Hons.)

BITS Pilani

08/2015 – Present

Goa

Courses (Relevant)

- Theoretical Neuroscience
- Computer Programming
- Probability and Statistics
- Linear Algebra
- Machine Learning
- Neural Networks
- Discrete Mathematics
- Data Structures and Algorithms

SKILLS

Machine Learning

Deep Learning

Computer Vision

Theoretical Neuroscience

Brain-Computer Interface

Graph theory

Public Speaking

Pytorch

Numpy

Pandas

Software Development

PROJECTS

Detection of Windmills from satellite Images using
Faster RCNN (05/2017 – 07/2017)

Image Segmentation on Spacenet dataset using Fully
Connected Networks (10/2017 – 12/2017)

Segmentation of Nucleii in Microscope slides using an
Architecture derived from UNet

RubyPlot (05/2018 – Present)

- I created the prototype of an open source plotting library for Ruby from the Scratch and am involved in its further development and release.

Modelling single neuron as a graph (12/2018 – Present)

- I am modeling a single neuron as a graph which can act as a sub-graph in a neuronal network to preserve morphology while increasing computation speed.

ACHIEVEMENTS

Speaker at RubyConf 2018 Los Angeles (11/2018)

I was the only Student speaker at RubyConf 2018. my talk can be found at <https://www.youtube.com/watch?v=7QBkckZ1aNQ>

Participated in CAMP 2018 (06/2018)

I was one of the few undergrads selected to attend an international summer school about Neuroscience at NCBS Bangalore.

LANGUAGES

Python ● ● ● ● ○

Ruby ● ● ● ● ○

C++ ● ● ● ○ ○

MATLAB ● ● ○ ○ ○

INTERESTS

Non- Fiction Books

Public Speaking