Pranav Garg

Aspiring Artificial Intelligence Researcher

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 (Relevent)

- Theoretical Neuroscience
- Probablity and Statistics
- Machine Learning
- Discrete Mathematics
- Computer Programming
- Linear Algebra
- Neural Networks
- 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 Microsope 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