

Raj Patil

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Education

Indian Institute of Technology, Hyderabad

2018 – Present

B.Tech: Computer Science and Engineering

CGPA: 9.54

Relevant Coursework:

- Calculus, Vector Calculus, Linear Algebra, Probability, Statistics, Random Processes
- Applied Digital Logic Design, Digital System Design, Digital Signal Processing, Transform Techniques
- Discrete Structures, Theory of Computation, Data Structures, Algorithms, Computer Architecture, Operating Systems, Compilers(introductory), Principles of Programming Languages

Skills and Tools

Languages

- *fluent in:* C,C++,Python
- *prior experience in:* Haskell, Eiffel, Prolog
- *regular utilities:* shell scripting, Racket(Scheme(Lisp))

Frameworks, Libraries and relevant Tools

- pytorch, scikitlearn, pandas, matplotlib, numpy
- Jekyll, Github Pages, Google Cloud Utilities
- git,UNIX ,L^AT_EX

Experience

Ongoing Research: Transfer Learning | Semantic Segmentation

May 2020 - Present

under the mentor-ship of Prof. Vineeth N Balasubramanian and Prof. C.V. Jawahar

- examining the applicability of **transfer learning** across multiple domains to **computer vision** tasks: principally semantic segmentation
- working with Autonomous Driving Data-sets with **large domain shifts**

Projects

Technical Blog and Personal Website

July 2020

- based on recent developments in technical fields of my interest
- also post updates and ideas about my ongoing tinkering projects
- <https://rajpatil.dev>

Custom Deep Learning Framework

December 2019

- created the framework from scratch, abiding to and **learning** about **development strategies simultaneously**
- **implemented**, and **tinkered** with, the constructs of **pytorch**
- https://github.com/rajp152k/cust_dl_lib

Extracurriculars

Founding Core Member of *Epoch, The ML Club of IITH*

September 2019 - Present

- **created the content** for, and **conducted** the **first** ever workshop session of the organization
- the workshop was based on **numpy, pandas, matplotlib and seaborn**
- <https://github.com/IITH-Epoch/Session-1-2019-10-03>

Achievements

- **single-handedly commenced and authored** a blog about philosophy and generic science (Sep 2018 - Mar 2020), **building an international readership over 30 countries.**
- **JEE ADVANCED 2018 AIR 658**

As of August 15, 2020