Manu Hegde

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🎓 Education

2015-08 2019-06 **Dr. Ambedkar Institute of Technology**   Bengaluru, India

- B.E in Computer Science & Engineering
- CGPA - 8.1, Languages: C, C++, java, Clojure, Python, PHP, Javascript

🖼 Experience

2019-01 2019-05 **Deep Learning Intern**   Bengaluru, India

Tika Data
- Built tool to extract frames at a regular intervals, containing one or more objects specified.
- Uses OpenCV, can interchangeably use any of Yolo, SSD, Faster R-CNN.

2018-06 2018-08 **Front End Developer (ReactJS)**   Bengaluru, India

Shramajeevi
- Built agdial.in, a serverless, responsive web app in ReactJS with Firebase backend.
- Redesigned shramajeevi.com into a react web app.

2017-06 2017-08 **Software Engineering Intern**   Bengaluru, India

Radiant Data Systems
- Developed firmware for custom fabricated a device running ATmega1280 that displays inventory statistics, receiving information from a desktop via USB or Bluetooth connection
- The firmware was written in C and the Desktop Application in Microsoft Visual C++.

</> Projects

2018-02 2018-04 **File sorting using unsupervised machine learning**

Written in C++
- 🖿 fsort - ui in QT5 C++ and 🖿 libfsort - backend library with Caffe 1.0 C++.
- Linux Desktop Application to segregate Image files based on its content and colour distribution using inception-v2 as feature extractor and T-SNE for clustering.

2012-01 2012-07 **X86 Kernel Development**

Written in C and x86 Assembly
- 🖿 manuos - My own 32 bit Operating System Kernel written from scratch with very basic abilities like virtual 8086 mode, pae paging and system calls.

💡 ML & AI Courses

- External Internship Program - Offline - Machine Learning & AI Foundation, Bengaluru
  - Trained CNN on MNIST dataset to reach 99.2 validation accuracy in less than 18k parameters.
  - Trained DenseNet model with less than 1M parameters to reach 92% validation accuracy in 160 epochs.
- Machine Learning by Andrew Ng on Coursera
- Stanford CS231n on Youtube, Deep Learning CS7015 by IIT Madras on nptel.ac.in

🖉 Other Skills & Interests

- 2D animation & Image manipulation in Adobe Photoshop
- Reverse engineering of binary executables using radare and gdb and experiments with Raspberry Pi.
- Volunteering Experiences: MakerFaire Bengaluru 2017, Hasgeek 50p '18, rootconf '18, Fifth Elephant '18