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](https://agdial.in/), a serverless, responsive web app in ReactJS with Firebase backend.
* Redesigned [shramajeevi.com](https://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](https://github.com/manuhg/fsort)​ - ui in QT5 C++ and [libfsort​](https://github.com/manuhg/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](https://github.com/manuhg/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](https://arxiv.org/abs/1608.06993) 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