Manu Hegde

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Experience

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

Tika Data

- Built tool to extract frames at regular intervals, containing one or more objects specified.
- Built tool to generate new faces based on a given set of faces using Style GAN.

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

2019-03 2019-04 **Document Summarization**

- Saaramsha - Document summarization using Skipthought encoder, T-SNE, KMeans.
  Hosted at tldr.cool

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

- fsort - ui in QT5 C++ and libfsort - backend library with Caffe 1.0 C++.
- 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**

- manuos - A very basic 32 bit Operating System Kernel written from scratch in C and assembly.

Education

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

- B.E in Computer Science & Engineering
- CGPA - 8.2, Languages: C, C++, java, Clojure, Python, Javascript.
- Frameworks: Pytorch 1.0, ReactJs Tools: git, emacs

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, padhAI Deep Learning by OneFourthLabs
- Stanford CS224n, CS231n on Youtube, Deep Learning CS7015 by IIT Madras(nptel.ac.in),

Other Skills & Interests

- 2D animation & Image manipulation in Adobe Photoshop
- Volunteering Experiences: MakerFaire Bengaluru 2017, Hasgeek 50p ‘18, rootconf ‘18, Fifth Elephant ‘18