Vighnesh Pai

https://VPai8.github.io
paivighnesh8@gmail.com | 7338304187

EDUCATION

MANIPAL INSTITUTE OF TECHNOLOGY

B.Tech. in Computer Science and Engineering
Cum. GPA (5th semester) : 8.72
Expected May 2020 | Manipal

LITTLE ROCK INDIAN SCHOOL

Class 12
Percentage : 95.4
Graduated March 2016

Class 10
CGPA : 10
Graduated March 2014

LINKS

Github:// **VPai8**
LinkedIn:// **vighnesh-pai**
HackerRank:// **vighneshpai**
Twitter:// **@PaiVighnesh8**

COURSEWORK

UNDERGRADUATE

Data Structures and Algorithms
Operating Systems
Artificial Intelligence
Machine Learning
Compiler Design
Computer Networks

SKILLS

PROGRAMMING

Over 5000 lines:
C++ • C • Python
Familiar:
Git • Java • Assembly • Shell • HTML • CSS • PHP • JavaScript • Go
Frameworks and Tools:
TensorFlow • Keras • Adobe Illustrator

PROJECTS

EM

- Web app which receives a word and returns the most similar words according to rap lingo.
- The word embedding was trained on songs by Eminem using Word2Vec. Gensim library was used.
- The lyrics for the songs were scraped from the Geniuslyrics website using BeautifulSoup4.

DIGIFY

- Parallelised implementation of CNNs. Used MPI and CUDA.
- Also built a Neural Network using TensorFlow which classifies digits and compared it's performance with that of CNN's trained on the same dataset.
- Used Regularisation on the dataset and Optimisation algorithms like RMSprop and Adam to acheive high accuracy recognition.

CENSORBOT

- Built a Reddit bot which ASCII censors NSFW images posted on a subreddit of the users choice.
- ASCII image is generated and uploaded to Imgur using the website's APIs.
- PRAW library was used to interface with the Reddit API in python.

2048T

- Recreated the classic 2048 game to be played on a Linux terminal.
- Game written in C++. Used ncurses library.

COURSES

COURSERA

- Deep Learning Specialization by deeplearning.ai
- Machine Learning by Stanford University

EXPERIENCE

MEDBLOCKS | Backend Developer

Medblocks is a startup which is developing a protocol for decentralized medical records. I built the database functionalities by interfacing with CouchDB APIs using Golang and implemented files processing on IPFS with JavaScript in the frontend. I also learnt how to use Docker for easy development in a team across systems.

IE-CSE MANIPAL | management committee member

Conducted workshops and tech events to spread knowledge of Computer Science in the college. Tutored juniors in the club in domains like Algorithms , Data Structures and Competitve Programming as part of Winter and Summer projects.

IE-CSE MANIPAL | working committee member

Organized online and offline Competitive Coding events as part of the technical fests. Managed to secure sponsorships for the club events.