

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
 GPA : 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 • MySQL
 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.

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.

DIGIFY

- 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 achieve high accuracy recognition.

EVENTCAL

- Created webpages for a club to handle , showcase their events and get student data and statistics.
- Used HTML/CSS , PHP and Apache with MySQL.

VOICEVALIDATE

- A python program which validates a user with the user's voice as password.
- ZCR used to figure out endpoints and MFCC to extract features from the audio signal. Implemented using numpy library.

POSITIONS OF RESPONSIBILITY

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 Competitive 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.