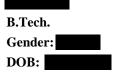


Computer Science & Engineering Indian Institute of Technology, Bombay



| Examination | University | Institute | Year | CPI / % |
|-------------|------------|------------|------|---------|
| Graduation | IIT Bombay | IIT Bombay | 2021 | null |

SCHOLASTIC ACHIEVEMENTS _____

| C 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | /> |
|--|--------|
| \bullet Secured institute rank ${f 1}$ and overall rank ${f 19}$ in HackIITK Hackathon out of 12500 participants | (2020) |
| • Secured 2nd position in Capture The Flag competition in 8th Inter IIT Tech Meet | (2019) |
| • Scored 98.52 percentile in JEE Advanced among 160,000 aspirants across India | (2017) |
| • Scored 99.56 percentile in JEE Main among 1.2 million students across India | (2017) |
| • Qualified for Kishore Vaigyanik Protsahan Yojna fellowship given by Govt. of India | (2016) |
| • Recipient of National Talent Search Examination scholarship awarded by NCERT | (2015) |

Internship and Key Projects _____

Fixed Income Workbench

Summer 2019

Guide: Rakesh Kukreja & Joshua Rout

Franklin Templeton Investments, Hyderabad

- Simplified the investment process of Australian Fixed Income Department by creating a Django web app
- Built graphs using **HighCharts** (a javascript library) for **easy visualization** of the investment data
- Displayed the data using **DataTables** (a jQuery plugin) with user friendly filter options and search functionality
- Deployed the web app using **Apache** on an internal server of the company sitting in Australia

Malware Detector-Classifier

Summer 2020

HackIITK Hackathon

Self Project

- Developed a malware detector cum classifier based on static analysis of PE files ensuring zero risk to host
- Processed 50GB of malware and benign files to train high accuracy machine learning model

BotNet Detector

HackIITK Hackathon

Summer 2020

Summer 2020

• Developed a network analysis tool for detection of **Peer-to-Peer** botnet infected hosts

Analysed 47 Million botnet and benign packets for the machine learning model used in detection

The Typing Cat

Self Project – Winter 2019

- Automated a typing test on the typing cat.com with a python script using Selenium Web Driver
- Achieved a speed of more than **250 WPM** (Words Per Minute) in the one minute typing test.

Facial Expression Recognition

Autumn 2019

Guide: Prof. Ganesh Ramakrishnan

Course Project

- Built and trained a Convolutional Neural Network (CNN) to classify human faces into 6 different emotions
- Implemented Voila Jones Algorithm to detect and isolate human faces in the input image

Secure Personal Cloud

Autumn 2018

Guide: Prof. Soumen Chakrabarti

Course Project

- · Developed a cloud based file system using **Django Framework** that supports simultaneous multiple clients
- Implemented client-side encryption that give users complete control over the encryption schema

TECHNICAL SKILLS

Programming Python, C, C++, Java, Kotlin, Bash, Racket, Prolog, LATEX, Perl, Assembly

Web Development HTML, CSS, JavaScript, JQuery, PHP, SQL, Django, Flask, Jekyll

Software Tools Git, Android Studio, Arduino, Unity, MATLAB, Docker

CTF Tools Burp Suite, Ghidra, Wireshark, Metasploit, BloodHound, Nmap, Z3, pwntools

Extra Curricular ____

• Ranked **Pro Hacker** on **HackTheBox**, an online platform to practice and test cyber security skills (2020)

• Participated in 40+ international Capture The Flag competition in 2020 (2020)

• Frequently **blog** about penetration testing and hacking machines released weekly on HackTheBox (2020)

• Successfully completed a year long course in **Indian Classical Music** (Vocals) (2017-18)

• Made a personal best time record by solving a $3 \times 3 \times 3$ Rubik's Cube in 9.86 seconds

(2016)