

Sangraam Patwardhan Mechanical Engineering Indian Institute of Technology Bombay 19D100017 B.Tech. Gender: Male DOB: 31-12-2000

Examination	University	Institute	Year CPI / %
Graduation	IIT Bombay	IIT Bombay	2023

SCHOLASTIC ACHIEVEMENTS

• Achieved 99.45 percentile out of 200,000 candidates in JEE Advanced	(2019)
• Among top 0.3 percentile in JEE Mains amongst 1,200,000 students	(2019)
Pursuing a minor degree in Computer Science and Engineering	(2021)
• Secured 96.6% in Class X and 92.15% in Class XII examinations	(2017, 2019)

PROJECTS

• Indecision App (React.js)

December 2020

- Created an app to randomly assign to-do tasks using React.js
- Used SCSS partials to make the app scalable Webpack to bundle the assets
- Weather Website (Node.js)

October 2020

- $\circ~$ Used the Mapbox~API to geocode the location and Weatherstack~API to get the weather data
- Bootcamp Rest API (Node.js)

March 2021

- o Built the complete backend CRUD API for a Bootcamp using Express, MongoDB and Node.js
- o Included user accounts and authentication using JWT Cookies, along with admin access functionality
- o Deployed with PM2, NGINX, SSL. Set up API Security (NoSQL injection, XSS protection, Rate Limiting)
- Mini-IS Projects (HTML / CSS / IS)

March 2021

- Implemented multiple mini-projects Form Validator, Custom Video Player, Movie Seat Booking, Exchange Rate Calculator - using JavaScript , HTML and CSS.
- Used the HTML5 Video API and Fetch API for the Video Player and Exchange Rate Calculator
- **Computer Vision** (*Learners' Space Course Project Python, OpenCV*)

July 2021 - Ongoing

- o Designed the frontend of a Video Chat App, and a Sudoku Detector / Solver using OpenCV
- o Proficient at Object Detection, Grid Detection, Panorama Stitching, Augmented Reality

POSITIONS OF RESPONSIBILITY

• Intern, Holavira May-July 2021

- Worked as a content creator / facilitator for students aged 12-14 at Holavira, an EdTech startup aiming to help school students acquire the skills and practical exposure important in the real world
- o Conducted interactive sessions on topics like ML, Electric Cars, SpaceTech, Cryptocurrency, and CleanTech
- Held Know-Your-Career talks, explaining what the real professionals like IAS Officers do and the
 problems they solve on the job, and moderated student discussions on how to solve these problems
- Guided student discussions / debates on real-world problem statements inspired by the situations companies and businesses face - like marketing, customer acquisition - and made them solve these problems systematically, encouraging structured thinking
- Convener, Maths and Physics Club, IIT Bombay

April 2020-21

- Part of a team of 6 sophomore conveners working towards fostering the enthusiasm of 500+ students
 in physics and mathematics and having an outreach of 10,000+ enthusiasts online
- o Conducted group discussions, hosted trivia events for an online audience

TECHNICAL SKILLS

Languages / Frameworks C++, Python, HTML, CSS, JavaScript, NodeJS, React, OpenCV

Operating Systems OS X, Windows

Courses - Computer Science CS101, Computer Networks, DS / Algo, Analysis of Algorithms*

(* to be completed November '21)

EXTRA CURRICULAR

Completed a year-long professional training in Football under National Sports Organisation

(2019-20)

- Spread awareness about cancer as a part of GCCI's nationwide programme and helped in providing relief efforts for cancer sufferers (2019-20)
- Successfully cleared 3 levels of Abacus and Mental Arithmetic training under GAMA

(2008)

Selected twice to represent school at the Inter School Spelling Bee competition

(2011, 2014)

• Passed the 6th Kyu Grade examination of Traditional Shotokan Karate

(2011)