

Shyam Iyer Engineering Physics Indian Institute of Technology Bombay 190040116 UG Second Year Male

DOB: 18/10/2001

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2021	8.86

### ACADEMIC ACHIEVEMENTS

- Awarded a Change of Branch to the **Engineering Physics** discipline among 8 out of 1000+ students (2020)
- Secured 98.46 percentile in JEE Advanced and 99.43 percentile in JEE Main Examination

(2019)

### **KEY PROJECTS**

### InstiDelivery | Institute Technical Summer Project

Mar '20 - Jun '20

Selected in the Top 3 Projects out of 64 teams after rigorous evaluation by the Institute Technical Council

- Developed an Autonomous Drone Delivery system using Robot Operating System (ROS) in Ubuntu
- Simulated three quadcopters in Gazebo Simulator to deliver packages over a maximum distance of 2.0 km
- Constructed a virtual model of IIT Bombay campus using satellite data in **Blender** as a map for the simulation
- Designed a website in **Django** backend along with a real-time tracking system via **Bing Maps** in **JavaScript**

## Game Theory | Summer of Science

Apr '20 - Jun '20

Self learning project mentored by an experienced senior under the Maths and Physics Club of IIT Bombay

- Learned key concepts of Game Theory such as Nash Equilibrium, Backward Induction and applications
- Studied lecture video content of the online course ECON 159 Game Theory offered by Yale University
- Documented my learnings in a 10,000 word report and analysed a case study on Discussion in Game Theory

#### Junior Dynamics Engineer | Team Hyperloop IITB

Jan '20 - Aug '20

Part of a 30 member team involved in designing and building a functioning prototype Hyperloop pod

- Worked on the COMSOL Multiphysics platform to develop simulations of magnetic brake models
- Conducted research on Lateral Control Modules, **Electrodynamic Wheels** and **Halbach Array magnets**
- Designed magnetic array brakes for the Arizona DesertLoop competition, selected for the final round

### LEADERSHIP AND ORGANISATIONAL EXPERIENCE

## Literary Arts Convener | Institute Cultural Council, IIT Bombay

May '20 - Present

Part of a 6-member council organising Literary Arts events for a 10,000 strong student community

- Created content for 60+ campaigns under LitBlitz increasing the club's online presence over 12 fold
- Coordinated 15 events under the flagship Battle of the Batches clocking 12+ hours with 100+ participants
- Ideated, curated and hosted the first ever Online General Quiz among 30 top quizzers over a virtual medium
- Co-ordinated the Inter IIT Scrabble League with 370+ participants and 750 matches among 7 top IITs
- Responsible for maintaining the college quizzing blog which amassed 80,000+ hits in two months

# Publicity Coordinator $\mid$ Techfest, IIT Bombay

May '20 - Dec '20

Working in a team of 8 to publicize Techfest and its various events to 2500+ colleges across India

- Managing and writing content for social media accounts namely Facebook (3 million+ followers), Instagram (42.5K+ followers), Twitter (18.7K+ followers) and LinkedIn (14K+ followers) for Techfest.
- Directed a team of 20 organizers to maximise the online presence of Techfest across social media platforms

## TECHNICAL STRENGTHS

Programming Languages Software

C++, Python, ROOT, MATLAB, Java, JavaScript, LATEX, HTML5, CSS3 Git, ROS, Solidworks, AutoCAD, COMSOL, Photoshop, Premiere Pro

## **EXTRACURRICULAR ACTIVITIES**

Quizzing &	• Awarded Par Excellence in Quizzing in 2016, 2017 at G.D. Somani Memorial School	
Literary Arts	• Qualified to the quarterfinals of the Institute Scrabble League out of 80+ participants	
Social Work	• Raised funds for the <b>Terry Fox Foundation</b> towards cancer research for <b>3 years</b>	
	• Visited the <b>Leprosy Mission Trust</b> Vocational Training centre in Nashik, Maharashtra	
Sports & Culturals	• Completed a year-long training in <b>Athletics</b> through the National Sports Organization	
	• Certified Green Belt holder by the Shotokan Karate-Do International Federation	
	• Performed the Acoustic and Bass <b>Guitar</b> in multiple school competitions over three years	