



Kartik Saxena
Civil Engineering
Indian Institute of Technology Bombay

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B.Tech.
Gender: Male
DOB: 27/3/2002

Examination	University	Institute	Year
Graduation	IIT Bombay	IIT Bombay	2024

Pursuing a **Minor degree** in Industrial Engineering and Operations Research (**IEOR**), IIT Bombay

WORK EXPERIENCE

Business Development and Strategy Intern | Yodacart (June 2022 – July 2022)

Yodacart is an e-commerce platform that sells home appliances with a valuation of **INR 2M+** and **33k+** monthly visitors

- Increased the viewership of the Yodacart website by **5%** across India by liaising with **2** affiliate marketing strategy firms
- Orchestrated reward-based incentivization system by interviewing **50+** personnel in the electronic market of Mumbai

POSITIONS OF RESPONSIBILITY

Institute Internship Coordinator | Practical Training Cell, IIT Bombay (June 2022 – Present)

Part of a **24-member** team entrusted with the task of streamlining internships for over **2000** students of IIT Bombay

- Building and fostering relations with leaders across **200+** institutions and professors across **100+** renowned universities
- Scheduling and organizing GDs, Interview sessions, Presentations, and Resume-making sessions for **2000+** Students
- Formulated a Plan of Action to target a **15% y-o-y** increase in internship offers for students of the Civil department
- Ideated and executed a preparatory test series to help **2000+** students sitting for internships and placement season

Junior Design Engineer | Mars Rover Team, IIT Bombay (Apr 2021 – June 2022)

A cross-functional team of students which fabricates a semi-autonomous rover for the **University Rover Challenge**

- Worked on developing and analysing 3-D printed Solid wheels and chassis and improved them with successive iterations
- Designed and tested a robotic arm on **Solidworks** with 6 degrees of freedom capable of lifting up and displacing an object

Dynamics and Levitation Engineer | Veloce Hyperloop Team, IIT Bombay (Sep 2021 – June 2022)

Part of a 50-member team involved in designing and building functioning prototypes for Hyperloop pod competitions

- Suspension assembly, lateral control modules (LCM), and brakes were designed in **Solidworks** and simulated in **Ansys**

Pronites Coordinator | Mood Indigo, IIT Bombay (May 2021 – Jan 2022)

51st edition of Asia's largest college cultural festival | **1,00,000+** Viewership | **3+** hours viewing time

- Co-ordinated with a team of **50+** people to handle the execution of Mood Indigo Homecoming Concert (audience: 10,000+)
- Conceptualized and Organized Livewire - the biggest semi-professional Indie band competition, in **5+** cities of India

MENTORSHIP EXPERIENCE

Department Academic Mentor | Civil Engineering Department, IITB (May 2022 – Present)

- Mentoring **6** sophomores in academics and co-curricular; involved in bridging student faculty gap in the department
- Counsel students to ensure their complete growth and assist them in overcoming obstacles in their academic lives
- Updated **DAMP blog** to help applicants in all professions by gathering and analysing articles about student experiences.

Teaching Assistant | Engineering Drawing | Prof. Anirban Guha | Mech. Engineering (March 2021 – June 2022)

- Responsible for Solution Making of weekly assignments on **AutoCAD/Solidworks** and catered to students' queries

KEY PROJECTS

Stock Market Analysis | Summer of Science | Maths and Physics Club, IIT Bombay (June 2021)

- Learned about the ways, justifications, and advantages of investments from both a business and a human standpoint
- Examined and contrasted the functions and applications of **Fundamental analysis** with those of **Technical analysis**

Image Classification Model | Machine Learning and Remote Sensing | Course Project (Sep 2021)

- Constructed a deep **CNN** on **Pytorch** trained on a dataset from Kaggle to predict the type of image from 10 categories
- 100** test photos were used to categorize **1000+** images that had been trained in Pytorch, with an accuracy rate of **72%**.

Mask Detection Model | Machine Learning and Remote Sensing | Course Project (Nov 2021)

- Designed and tested a machine learning-based YOLO model for detecting masks on images using **Keras** and **Tensorflow**
- Conducted **research paper analysis**, studied SLAM algorithms, Gazebo, Path planning by DWA, and neural networks

EXTRA-CURRICULAR ACTIVITIES

Finance:	• Passed the Financial Markets course by Robert Shiller with a 100% grade on Coursera (2021)
Technical Skills:	Programming: Python, C++, MATLAB, HTML Software: Solidworks, AutoCAD, Ansys, MS Office, Android Studio, Comsol
ML/AI:	• Passed the Machine Learning by Andrew Ng with a 100% grade on Coursera (2021)
Awards:	• Secured 1 st position in Maths and Science Olympiads by SOF for 5 consecutive years (2009)
Case Study:	• Worked in a team of 4 to prepare a report for the Case study challenge by Harvard University • Prepared a report in a group of 5 for the IIT Kharagpur Indian case study challenge, 2022
Sports:	• Secured 4 th position in city-level open tennis tournament (2014) • Completed a year-long course in Lawn Tennis under National Sports Organization (2021)