



Sharvaree Sinkar
Electrical Engineering
Indian Institute of Technology Bombay

19D070058
Dual Degree (B.Tech. + M.Tech.)
Gender: Female
DOB: 10/21/2001

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2024	

SCHOLASTIC ACHIEVEMENTS

- Secured **97.42 percentile** in *IIT-JEE Advanced* entrance examination among **0.24 million** candidates (2019)
- Ranked **1st in District** for exemplary performance in *Maharashtra Talent Search Examination (MTSE)* (2017)

PROFESSIONAL EXPERIENCE

Tech Mahindra | *Deep Learning Intern* | *Innovation Cell* (Jul '21 - Present)

- Researching & building a deep **CNN** model for **Pipeline Leakage Detection** comprising of **RNN/ LSTM** network
- Implementing surface **Defect Detection** algorithm for manufacturing units using **Tensorflow** for image classification
- Experimenting on different **Feature Extraction** methods for surface fault detection in processing stage of product

Virtual 3D Presence Systems | *Winter Intern* | *Industry Learning Program* (Dec '20 - Jan '21)

- Received **Letter of Recommendation** for exceptional technical research & analysis from the CEO of the startup
- Systematically designed & prototyped five different **3D hologram models** for static images & videos
- Performed **competitive analysis** on 10+ parameters of feasible solutions using **Blue Ocean Strategy Framework**

POSITIONS OF RESPONSIBILITY

Institute Secretary of Technical Affairs | *Institute Technical Council* (May '21 - Present)

Head of the Electronics and Robotics Club and part of a 30-member core team catering to 5000+ students

Leadership	<ul style="list-style-type: none">Elected to lead 10-member team to organize 20+ technical events, workshops & competitionsHead of the All IIT Robotics Association (AIITRA), a collaboration between the robotics club of top 5 IITs to conduct country-wide hackathons, with a reach of 50,000+ students
Management	<ul style="list-style-type: none">Hosted and organized IndustryX, a series of virtual talks and Q&A sessions of distinguished researchers and industrialists aimed to familiarize students with next generation technologiesCoordinated the Institute Technical Summer Project (ITSP) program of 300+ participants
Initiative	<ul style="list-style-type: none">Launched Controls Theory Bootcamp with 150+ registrations under TSS, Learners' SpaceConceptualizing on technical opportunities under Women in Science & Engineering (WiSE)

Institute Technical Convener | *Electronics and Robotics Club* (May '20 - May '21)

- Selected among **top 8** out of **130+** applicants, in order to promote technical activities & projects across the institute
- Conducted club's flagship events such as **Arduino Bootcamp**, ER101 series and co-authored **ERC Wiki** repository

KEY PROJECTS & COMPETITIONS

Winner - Design Thinking Competition | **30+ Teams** | *ShARE, IIT Bombay* (Jul '21)

- Applied Design Thinking framework to solve the burning issue of low **female labour force participation** in India
- Interviewed **40+** women and executed a thorough research in order to empathize & define the given problem statement
- Ideated and prototyped a **Women Community Platform** as a part of testing iteration process of the framework

KPMG Ideation Challenge | *One of the top 400 teams among 4800+ teams* (Dec '20 - Jan '21)

- Identified **4 problems** in regulation of logistical process of the **country-wide pharmaceutical supply chain**
- Developed big data solution to increase inventory accuracy and customer satisfaction; **reducing losses by 50%**

Virtual Keyboard | *Seasons of Code* | *Web and Coding Club* (Apr '21 - Jun '21)

- Developed a **Wireless Paper Keyboard** model which recognized numbers, alphabets and characters via touch
- Obtained perspective transform and contour detection using **Image Processing** techniques and **OpenCV** library

TECHNICAL SKILLS

Programming Languages	C++, Python, Julia, VHDL, Embedded C
Libraries and Packages	TensorFlow, PyTorch, OpenCV, Scikit-Learn, Numpy, Pandas, Matplotlib

EXTRACURRICULAR ACTIVITIES

- Finance:** Gained insights about **Technical vs. Fundamental Analysis** under FinSearch program, Finance Club
- Culturals:** Completed one year of professional training in **Keyboard** under National Sports Organization (**NSO**)
- Social:** Delivered a **talk** to **60+ rural students** on remote controlled cars under **UNICEF**, Abhyuday, IIT Bombay