



Yash Tangri
Mechanical Engineering
Indian Institute of Technology Bombay

22B2251
B.Tech.
Gender: Male
DOB: 14/11/2003

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2026	1

Pursuing a minor degree in **Artificial Intelligence and Data Science** from C-MInDS, IIT Bombay

SCHOLASTIC ACHIEVEMENTS

- Achieved **AIR 902** in JEE Advanced, top **0.50** percentile in JEE Mains among **1M+** candidates nationwide ('22)
- Attained SPI of **9.36/10** in the **4th** academic semester | Awarded an **AA (10/10)** grade in **4** courses till date ('24)
- Qualified for **Indian National Mathematics Olympiad (INMO)**; among the top **2%** out of **30k+** students ('21)

POSITIONS OF RESPONSIBILITY

Editorial Board Member | *Insight* | *IIT Bombay's Official Student Media Body* (Apr'24-Present)

Creating editorial content reaching 10K+ students with online readership of 0.4M+ in a 3-tier team of 25+ students

- Analyzed **10+** legal judgments relating to Payment of Gratuity Act to draft an article with **5K+** Instagram reach
- Interviewed **25+** female student representatives for an editorial **inspecting gender biases** in institute bodies
- Part of a **3-membered** team authoring '**The Sting**', a widely recognized institute-specific satirical Instagram series
- Co-authored an article on **IITB Research Park** under Insight's *Tech and Research Vertical* | Readership: **2.5K+**

Institute Student Mentor | *Student Mentorship Program, IIT Bombay* (Jun'24-Present)

Part of a 2-tier team 149 mentors aimed at providing academic and personal guidance to upcoming first-year students

- One of only 19** third-year students selected as an **ISMP mentor** among the entire batch of over **1400+** students
- Selected through a **rigorous process** comprising of a statement of purpose, interviews and peer and senior reviews

Department Academic Mentor | *Department of Mechanical Engineering* (May'24-Present)

Selected to be a part of a 43 member team through extensive interviews and peer reviews out of 150+ applicants

- Guiding 6** sophomores in their academic, personal and co-curricular pursuits by providing **credible counsel**
- Enhancing the **DAMP Blog** website covering **300+** reviews and experiences of courses, projects and internships

ENGINEERING EXPOSURE

Junior Design Engineer-Driverless Perception | *IITB Racing* | *Guide: Prof.Sandeep Anand* (Aug'23-Present)

Representing India at IMechE Formula Student AI, UK; part of the Computer Vision division in a team of 70+

- Managed a team of **22** trainees, effectively guiding them in the concepts of **object detection** and depth calculation
- Achieved **98.79%** accuracy by successful sensor-fusion of **2+** advanced sensors like **LiDAR** and **stereocameras**
- Attained **98.3%** average Precision by training **YOLOv5** model for object detection on a dataset of **700+** images
- Developed a **Convolutional Neural Network** with a mean average error of **3.6%** for monocular depth estimation
- Analyzed **3+** publications on socio-economic and ethical challenges in constructing **Level 4** fully autonomous society

RESEARCH EXPERIENCE

Image Processing Driven Anemia Detection | *Guide: Prof.Nimral Punjabi, Prof.Kshitijh Jadhav* (Jan'24-Apr'24)

Aimed to develop viable healthcare solutions for anemia detection in a team of 3 along with 2 professors

- Achieved a **Dice Score** of **82.37%** by developing various **U-net** models for semantic medical image segmentation
- Implemented state-of-the-art **SAMed** and **MedSAM** models to achieve semantic segmentation on minimal data
- Curated a dataset of **1500+** manually annotated medical images for object detection and semantic segmentation
- Utilized **LoRA**, **Self Attention** and **Few-shot learning** techniques on vision transformers for exceptional results

EXTRA-CURRICULAR ACTIVITIES

Competitions	<ul style="list-style-type: none">Among the top 10 teams to qualify for the finals of ConsultX, a case study competitionAwarded the Gold Medal in Silverzone Olympiad for Mathematics in high school
Social Initiatives	<ul style="list-style-type: none">Contributed to the cleaning of Versova beach, ultimately collecting 1 tonne of wastage
Mentorship	<ul style="list-style-type: none">Working with the YouTube channel,with 200K+ subscribers as a Guidance MentorMentored 40+ students as a Guidance Mentor for their entrance exam preparationHeld 2 live Q&A sessions with various students for career counselling and guidance
Languages	<ul style="list-style-type: none">Studied French for 4 years in high school and developed fluency in speaking and writing
Culturals	<ul style="list-style-type: none">Successfully completed 9 months of training in theatre arts under NSO, CulturalsPlayed the lead role in a play focused on mental of young adults as part of NSO, Culturals
Sports	<ul style="list-style-type: none">Represented hostel twice in a 5km marathon, successfully completed under 30 minutes
Technical Skills	<ul style="list-style-type: none">Python,C,C++,Bash,ROS,Tensorflow,OpenCV,Pillow,L^AT_EX,MATLAB,CAD,MS Office