



**Kanishk Modi**  
Engineering Physics  
Indian Institute of Technology Bombay

22B1848  
B.Tech.  
Gender: Male  
DOB: 15/07/2004

Examination	University	Institute	Year	CPI/%
Graduation	IIT Bombay	IIT Bombay	2026	9.55
Intermediate/+2	CBSE	KIIT International School, Bhubaneswar	2022	97.6
Matriculation	CBSE	Mother's Public School, Bhubaneswar	2020	96.6

Additionally pursuing a **Minor Degree** in the **Department of Mathematics**

## RESEARCH EXPERIENCE

- **Computational Chemistry** (Mar'23 - Present)  
(Guide: Dr. Raghavan B. Sunoj, Professor, Department of Chemistry IITB)
  - Developed an understanding of Potential Energy Surfaces (PES) and Use of Molecular Mechanics, Ab-Initio Calculations and Semi-Empirical Calculations in estimating the PES.
  - Learning Computational Techniques to study molecules using parameterization.

## SCHOLASTIC ACHIEVEMENTS

- Secured an **AP** grade in CH105 (Organic and Inorganic Chemistry) awarded to top **2%** of the batch for exceptional performance. (2023)
- Selected for the **National Initiative for Undergraduate Sciences (NIUS)** for Physics organised by **Tata Institute of Fundamental Research (TIFR)** and conducted by **Homi Bhabha Centre for Science Education (HBCSE)**, Mumbai (only **72 undergraduate students** selected nationwide) (2023)
- Secured All India Rank **200** in IIT-JEE Advanced examination among **0.15 million+** candidates. (2022)
- Secured All India Rank **218** in JEE Main examination among **1 million+ candidates**. (2022)
- Secured All India Rank **88** in the Aptitude Test (IAT) conducted by the Indian Institute of Scientific Education and Research (IISER). (2022)
- Scholar of the esteemed **KVPY fellowship** conducted by Indian Institute of Science (IISc), Dept. of Science & Technology (GoI) with an All India Rank of **258**. (2021)
- Scholar of the esteemed National Talent Search Examination (NTSE) conducted by CBSE. (Only **2000** candidates selected nationwide out of **8 lakhs+** candidates) (2021)
- Attempted **INMO** (Mathematics Olympiad) after **Qualifying** 2 stages of **IOQM**. (2021)

## TECHNICAL SKILLS

- **Programming Languages & Tools:** C, C++, Python,  $\text{\LaTeX}$ , HTML, CSS, AutoCAD

## WORK EXPERIENCE & KEY PROJECTS

- **Technical Team Member** (April'23 - Present)  
*Astrophysics Subsystem, ANYmations Team, IIT Bombay*
  - Gaining insight into various Astronomical Phenomena and Physics behind it.
  - Developed an understanding on process of Animating events.
- **Formulation of Quantum Field Theory | Reading Project** (May'23 - July'23)  
*Summer of Science, Maths and Physics Club, IIT Bombay*
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## POR & EXTRA-CURRICULARS

- **Positions of Responsibility**
  - **Convener | Maths and Physics Club IITB** - Organizing events, managing publicity and preparing questions for various competitions. (May'23 - Present)
- **Sports**
  - **Represented Odisha** state in **All India Table Tennis Championship** in Cadet category. (2016)
  - **Runners Up** (2<sup>nd</sup> position) in **All Odisha Table Tennis Championship** in Cadet category. (2015)
  - **Champion** (1<sup>st</sup> position) in 2<sup>nd</sup> Keshabananda Das Memorial **All India Chess Open** in U9 Unrated category. (2013)
- **Miscellaneous**
  - Secured **1<sup>st</sup>** position consecutively for **2 years** in School Students' Competition, **Wissenaire IIT Bhubaneswar**. (2018 & 2019)
  - Participated in **Dale Carnegie** Personality Development Workshop. (2017)