

# ROHAN GHOSH DASTIDAR

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## EDUCATION

### INDIAN INSTITUTE of TECHNOLOGY, KHARAGPUR, India

Bachelor of Technology (Honours)  
Department of Chemical Engineering  
Minor in Biotechnology & Biochemical Engineering

Nov 2022 - Present

**CGPA: 8.97/10**  
(till 3<sup>rd</sup> sem)

### INDIRA GANDHI MEMORIAL HIGH SCHOOL, Kolkata, India

Central Board of Secondary Education, CBSE (2021)

2021

**86.6%**

### PRAMILA MEMORIAL INSTITUTE, Kolkata, India

Indian Certificate of Secondary Education, ICSE Examination (2019)

2019

**97.6%**

**Secured 2nd Rank in school**

## RESEARCH INTERESTS

- Protein Engineering
- Machine Learning
- Anti-microbial resistance
- Bioinformatics
- Computational Oncology
- Drug design
- Drug Delivery Systems

## RESEARCH EXPERIENCE

### IIT Kharagpur, Dept. of Bioscience & Biotechnology Protein Engineering & Structural Biology Lab

Nov 2023 - Present

*Supervisor: Dr. Soumya De, Associate Professor, Dept. of Bioscience & Biotechnology, IIT Kharagpur*

- Designing therapeutics to target macromolecular interactions leading to diseases, specifically protein – protein interactions.
- *Wet Lab Skills* – Performing • Streak plating • Gram staining • SDS PAGE • Agarose gel electrophoresis • Western blotting • PCR • Site-directed mutagenesis • Protein purification (Ni-NTA Affinity Chromatography) • Primary culture & Protein expression • Molecular cloning • Recombinant DNA Technology

## PROJECTS

- Development and design of a novel anchoring mechanism to support the transseptal deployment of TMVR (Transcatheter Mitral Valve Replacement) in a minimally invasive manner. Dec '23 – Jan '24  
*Skills* – CAD [Computer-aided design] • COMSOL (CFD Simulation)

## RELEVANT COURSES

### IIT KHARAGPUR

- Microbiology
- Microbiology Lab
- Cell and molecular biology
- Science of Living Systems
- Chemistry
- Chemistry Lab
- Transform Calculus
- Advanced Calculus
- Linear Algebra, Complex & Numerical analysis
- Programming & Data Structures
- Programming & Data Structures Lab
- Fluid Mechanics
- Thermodynamics

### Online Certifications

- Supervised Machine Learning: Regression and Classification [*Coursera*]
- Advanced Learning Algorithms [*Coursera*]
- Data Analysis with R Programming [*Coursera*]
- Biology meets Programming: Bioinformatics for Beginners [*Coursera*]

## COMPUTATIONAL SKILLS

### Programming Languages

Python3 (Numpy, Pandas, Matplotlib), R, C • HTML, CSS

### Computational Tools

PyMOL, ROSETTA, Chimera, GROMACS, MATLAB, COMSOL

### Machine Learning

TensorFlow • Regression, Classification, Decision trees

## EXTRACURRICULARS

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- National Service Scheme [NSS] Unit Representative, Unit 3 [**Awarded Best NSS Volunteer**]
- Swimmer, Technology Aquatic Society
- Volunteer, Animal Welfare Group
- Guitarist, *OFFBEAT (Music Group)*