

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 3rd 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
- Molecular Biology
- Machine Learning
- Anti-microbial resistance
- 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

Machine Learning

TensorFlow • Regression, Classification, Decision trees

EXTRACURRICULARS

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