

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: 8.65/10 (till 2nd 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
- Nano-pharmaceutical technology
- Drug design
- Drug Delivery Systems

RESEARCH EXPERIENCE

IIT KGP, School of Bioscience

Protein Engineering & Structural Biology Lab

Mentor: Dr. Soumya De, Associate Professor, School of Bioscience, IIT KGP

- Designing therapeutics to target macromolecular interactions leading to diseases, specifically Protein – DNA interactions.
- Performed Literature Study on “*Extein residues regulate the catalytic function of Spl DnaX intein enzyme by restricting the near-attack conformations of the active-site residues*”

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

RELEVANT COURSES

IIT KHARAGPUR

- Microbiology
- Microbiology Lab
- Science of Living Systems
- Chemistry
- Chemistry Lab
- Fluid Mechanics
- Thermodynamics
- Programming & Data Structures (PDS)
- PDS Lab

Online Certifications

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

COMPUTATIONAL SKILLS

Programming Languages

Python (NumPy, Pandas, Matplotlib), R, C, C++ (Basic) • HTML – CSS

Computational Biology

PyMOL, Discovery studio, Chimera, MATLAB, Rosetta

ML Frameworks

TensorFlow (Basic Proficiency)

ACHIEVEMENTS

JEE Advanced, 2022

All India Rank (AIR) 5702 [out of 250k candidates]

JEE Main, 2022

98.9 percentile - AIR 9609 [out of 1 million candidates]

WBEE, 2022

AIR 602 [out of 80,000 candidates]

EXTRACURRICULARS

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