

Argajit Sarkar

Master's of Science, Molecular Biology
& Bioinformatics



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SUMMARY

I am Argajit, **Research Scholar** with a Master of Science in **Molecular Biology and Bioinformatics** from Tripura University (a Central University) in Agartala, India. My expertise lies at the intersection of Antimicrobial resistance research with Machine learning and bioinformatics.

Having graduated in 2024 with a CGPA of 8.10/10, I now focus my research on developing innovative antibiofilm strategies and antimicrobial solutions to address pressing healthcare concerns worldwide.

EDUCATION

M.Sc in Molecular Biology & Bioinformatics

Nov, 2022 – July 2024

Tripura University, Agartala, Tripura, India

CGPA: 8.15/10

B.Sc in Human Physiology with Honours

Mar, 2019 – Sept 2022

Holy cross college, Agartala, Tripura, India

CGPA: 6.45/10

PUBLICATIONS

- **Sarkar, A.**, Bhattacharjee, S. Biofilm-mediated bioremediation of xenobiotics and heavy metals: a comprehensive review of microbial ecology, molecular mechanisms, and emerging biotechnological applications. 3 Biotech 15, 78 (2025). <https://doi.org/10.1007/s13205-025-04252-2>
- Barik, S., Goswami, S., Nanda, P. K., Sarkar, A., Saha, B., **Sarkar, A.**, & Bhattacharjee, S. (2025). TGF-beta plays dual roles in immunity and pathogenesis in leishmaniasis. Cytokine, 156865. <https://doi.org/10.1016/j.cyto.2025.156865>

EXPERIENCE

- Disstertation project titled "Exploring the Combinatorial Antimicrobial and Anti-Virulence Potential of Quercetin with Antibiotics Against *Vibrio cholerae*".

Feb – July, 2024

Six months of experience in the molecular biology and bioinformatics laboratory, where I collaborated with PhD scholars to conduct various experiments and relevant data to support our title, culminating in a perfect 10/10 SGPA.

SKILLS

AI & ML: LLM, Machine Learning, Generative AI, AI Ethics, Hugging Face, GitHub.

Lab: Cell culture techniques, Blotting techniques, Gel Electrophoresis, DNA & RNA isolation, Antimicrobial, and Antibiofilm assays.

Data Science: MS Excel and Python.

Relevant Courses: Professional Data Analytics, Python for Data Analytics

COFFERENCE, SEMINARS & AWARDS

- Participated in the Science Beyond Borders (Global S&T) event, **India International Science Festival (IISF)**, 2024, at IIT Guwahati, Assam.
- **Oral Presentation** at National Conference on Recent Trends in Biological Sciences in Northeastern India (NCRTBSNEI-2025), March 2025. ([View Certificate](#))
- Santanu Kar Memorial Merit Award, (**Holy Cross College**), Agartala, Issued February 2021
- *Awarded for academic excellence during the academic year 2019/2020.*
- [View Award Certificate \(PDF\)](#)

LICENSES & CERTIFICATIONS

➤ Data Science & Analytics

Python for Data Science and AI (**IBM**), Issued May 2025

- Credential: [IBM20250505-27-27jqee.pdf](#)")

Data Analysis with ChatGPT (**365 Data Science**), Issued November 2024

- Credential ID: CC-FB6B33CB37

Introduction to Data and Data Science (**365 Data Science**), Issued November 2024

- Credential ID: CC-70B1CBF9A3

Understanding Data Visualization (**DataCamp**), Issued November 2024

- Credential ID: d860df08f4b1b2114d0072fc55ca03f3932b962a

Data Analysis with ChatGPT (**365 Data Science**), Issued November 2024

- Credential ID: [CC-FB6B33CB37](#)

➤ Machine Learning & AI

Understanding Machine Learning (**DataCamp**), Issued November 2024

- Credential ID: 736828043119ec438e22a229c26f0ca64ebea1fd

ChatGPT and Generative AI (**365 Data Science**), Issued November, 2024

- Credential ID: [CC-3D92AF4DD9](#)

AI Ethics (365 Data Science), Issued April, 2025

- Credential ID: <https://learn.365datascience.com/certificates/CC-2ED2BAD10C/>

NPTEL+ Workshop: WEKA Machine Learning for Healthcare NPTEL (**IIT Madras**), Issued February 2025

- Credential ID: NP25WS227620603284

➤ Bioinformatics & Genomics

Genomic Data Science (**Coursera**), Issued April 2025

- ([View Certificate \(PDF\)](#)) Credential: Coursera OQ8CTG38Q19J)

Workshop on "Multi-Ligand Docking Training with Vina and PyRx!" (**Research Boulevard**), Issued October 2024

- Credential ID: RBT/MD/ADMET/14/10/24/OO54 ([View Certificate \(PDF\)](#))

2 Day Hands-on workshop "Comparative Genomics: Evolutionary Genomics Application," (**Kent State University** in Collaboration with Tripura University), Issued May 2024

- Relevant Skills: Bioinformatics, Evolution, Evolutionary Biology
- [Certificate \(PDF\)](#)

➤ Other Relevant Certifications & Workshops

Other Relevant Certifications & Workshops (**IIT KANPUR**) 12-Weeks course: Wildlife Ecology

- NPTEL, Issued January 2024
- ([View Certificate \(PDF\)](#))
- Relevant Skills: Ecology, Wildlife Biology

➤ Affiliations

ASM Global Outreach-Student Member" (**American Society for Microbiology**), Issued January 2025

- [Certificate \(PDF\)](#)