

HARSHIT MISHRA

Gurugram, Haryana, India | mishra.harshit1811@gmail.com | +91 7011215360
github.com/harshitmishra0310 | linkedin.com/in/harshit-mishra-4b0a60217

PROFILE

Bioinformatics undergraduate at Shoolini University with experience building computational biology tools in Python. Interested in genomics, sequence analysis, computational biology, and AI-driven life sciences. Seeking research and software development opportunities in bioinformatics.

EDUCATION

B.Tech Bioinformatics	2026 – 2030
Shoolini University	
Class XII, CBSE – 90%	2025 – 2026
St. Xavier's High School	
Class X, CBSE – 95.2%	2023 – 2024
St. Xavier's High School	

TECHNICAL SKILLS

Programming: Python, R

Bioinformatics: DNA Sequence Analysis, Mutation Simulation, Restriction Site Analysis, RNA Transcription

Tools & Concepts: Git, GitHub, VS Code, Genomics, Molecular Biology, Genetics

Professional: Research, Problem Solving, Leadership

PROJECTS

DNA Sequence Analyzer *Python, Genomics*

- Designed and developed a Python application for comprehensive DNA sequence analysis.
- Calculated nucleotide composition, GC/AT content, and purine-pyrimidine distribution.
- Simulated RNA transcription and translated RNA into protein using standard genetic code.
- Generated structured biological reports through an intuitive command-line interface.

DNA Mutation Simulator *Python, Computational Biology*

- Built a mutation simulation tool performing substitution, insertion, and deletion mutations.
- Modeled downstream RNA transcription and protein translation.
- Compared original and mutated amino acid sequences to demonstrate mutation impact.
- Applied modular programming principles for reusable, maintainable code.

DNA Restriction Site Finder *Python, Bioinformatics*

- Developed a tool to identify restriction enzyme recognition sites in DNA sequences.
- Simulated cleavage positions for multiple commonly used enzymes.
- Designed an expandable enzyme database for future additions.

WORK EXPERIENCE

Student Internship

WeLear | Internship

- Supported research, data management, and project coordination at a health-tech startup, strengthening skills in healthcare technology, teamwork, and problem solving.

Campus Ambassador

International Model United Nations | Part-time

- Promoted participation in international MUN conferences through student outreach and networking, developing leadership, communication, and event promotion skills.

LEADERSHIP EXPERIENCE

Vice President	2025 – 2026
Model United Nations Society	
Discipline In-Charge	2023 – 2024
St. Xavier's High School	
Vice Head Boy	2022 – 2023
St. Xavier's High School	

CERTIFICATIONS

Stanford: Introduction to Statistics | IBM: Python for Data Science, AI & Development | Johns Hopkins: Introduction to Genomic Technologies | UC San Diego: Biology Meets Programming

LANGUAGES & INTERESTS

Languages: English (Fluent), Hindi (Native), Maithili (Fluent)

Interests: Bioinformatics, Computational Biology, Genomics, Chess, Public Speaking