

Harsh Tyagi

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EDUCATION

Jaypee University of Information Technology

B.Tech in Bioinformatics

CGPA: 8.92

Solan, Himachal Pradesh

Expected Graduation, May 2026

PROFILE SUMMARY

Targeting **Full stack Developer** roles with an organization of high reputation with a scope of improving knowledge and further career growth.

- MERN stack (**MongoDB, Express.js, React, Node.js**) with a strong background in building scalable web applications
- Collaborative and innovative team player, with proven success in **biohackathons** as part of the 'BioPixels' team, excelling in cross-disciplinary problem-solving.
- Currently engaged in the **identification of SNPs (Single Nucleotide Polymorphisms) in breast cancer**, leveraging advanced **computational biology tools** to drive insights into genetic variations.
- Proficient in implementing **bioinformatics algorithms** and **statistical models** such as **Linear Regression, Logistic Regression**, and **Gradient Descent** for analyzing complex datasets.

PROJECTS

Healthcare Hub

June 2024- Current

Tools: React, JavaScript, HTML, CSS

Implemented **seamless patient data management** systems, enabling secure storage and quick retrieval of patient records.

Responsibilities:

- Designed and implemented modules for **patient data management**, ensuring secure and efficient handling of medical records.
- Conducted testing and debugging to deliver a **user-friendly and reliable platform** for healthcare providers.
- Developed **real-time analytics dashboards** to provide actionable insights for hospital operations and patient care.

Genome-Wide Identification of NAC Gene Family in *Lens culinaris*

May 2023 – June 2024

Tools: Knowpulse, NCBI, Protparam, Python

Responsibilities:

- Conducted genome-wide identification and characterization of NAC (NAM, ATAF, and CUC) gene family in *Lens culinaris*.
- Performed sequence retrieval, multiple sequence alignment, phylogenetic analysis, and gene structure prediction.
- Analyzed chromosomal distribution, conserved motifs, and expression patterns to understand the functional roles of NAC genes.

ACADEMIC ACHIEVEMENTS

- Earned a certification in Full Stack Development, demonstrating proficiency in MERN stack technologies and project management.
- Recognized for outstanding academic performance, achieving a **CGPA above 9** in **Bioinformatics** during 2024.

SKILLS

Programming: Java, Python, JavaScript, HTML/CSS, SQL, Node.js, React.js, C++, C, Perl

Tools: , PyCharm, Protparam, AWS, Git, Bootstrap