

# Ankit Raj Singh

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## INTRODUCTION

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I am a 2nd year Biotechnology undergraduate at NIT Warangal (Minor in Mathematics & Computing) with hands-on microbiology experience in microbial culture techniques, biochemical assays, and lab instrumentation (BioLim). Skilled in bioinformatics tools like R programming, primer design, and protein analysis (Bioture), along with proficiency in Python, C++, HTML, Excel. Passionate about combining wet-lab and analytical skills for plant growth, biochemical, and microbial research.

## EDUCATION

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### National Institute of Technology, Warangal

*B. Tech., Biotechnology. CGPA - 8.5*

Warangal, India

2024 - 2028

## EXPERIENCE

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### Microbiology Lab Associate Intern

*BioLim | Certificate*

July 2025 – August 2025

*Remote*

- Learnt and applied aseptic techniques for safe handling of microbial cultures.
- Prepared and sterilized growth media for bacterial and fungal studies
- Performed gram staining to identify microorganisms.
- Operated lab equipment such as autoclaves, laminar airflow, microscopes, homogenizer and incubator

### Bioinformatics Intern

*Bioture | Certificate*

Jun 2025 – 14 July 2025

*Remote*

- Learnt the basics of DNA and protein sequence analysis using bioinformatics tools
- Practised database searches on NCBI for genetic and protein information.
- Gained hands-on experience with sequence alignment and BLAST searches .
- Understood fundamentals of genome annotation and data interpretation
- **Technologies used:** NCBI, BLAST, Sequence alignment tools, Basic genome annotation platforms

## ACHIEVEMENTS

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1. Earned certifications in Bioinformatics, TCS iON carrier edge, Data Analytics with AI Tools, Business Analytics, and Cybersecurity.
2. Cleared JEE Advanced exam. Secured top ranks in Hindustan Science Olympiad and Abhyanand Mathematics Olympiad. Selected in CHS(BHU)and Novodaya.

## SKILLS

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**Technical Skills:** C++, Python, SQL, R, NCBI, BLAST, DNA baser, BIOVIA Discovery Studio, Open Babel, Spectrophotometry, Cytoscape, AutoDock

**Soft Skills:** Communication, Presentation skills, Group discussion