

# Rasuti

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## PROFILE

Final-year B.Tech Biotechnology student with experience in molecular biology, bioinformatics and computational drug discovery. Seeking opportunities to apply my research and analytical skills to contribute to innovative projects across biotechnology, pharmaceuticals and life sciences.

## PROFESSIONAL EXPERIENCE

<b>Summer Intern</b> <i>Biotech Park</i> <ul style="list-style-type: none"><li>Conducted antiviral drug screening against SARS-CoV-2 Mpro and evaluated ligand–protein interactions.</li><li>Interpreted docking results to support potential drug repurposing strategies.</li></ul>	06/2025 – 07/2025 Lucknow (On-site)
<b>Research &amp; Development Intern</b> <i>RAAV Techlabs</i> <ul style="list-style-type: none"><li>Studied Brix levels and fruit firmness where Near Infrared Spectroscopy (NIR) was the primary analytical method.</li><li>Summarized findings, maintained commodity portfolio and curated content for The Fruit Project.</li></ul>	06/2024 – 07/2024 Delhi (Remote- Lucknow)

## PROJECTS

<b>Molecular Docking for SARS-CoV-2 Mpro</b> <ul style="list-style-type: none"><li>Screened 20 FDA-approved drugs using PyRx; visualized interactions with Discovery Studio.</li><li><b>Impact:</b> Identified strong-binding candidates for potential repurposing.</li></ul>	06/2025 – 07/2025
<b>Key DEG Identification in NSCLC</b> <ul style="list-style-type: none"><li>Performed differential gene expression analysis using R, GEO datasets and GO/KEGG enrichment.</li><li><b>Impact:</b> Discovered potential biomarkers for targeted therapy.</li></ul>	01/2025 – 05/2025
<b>Host Response in Infectious Keratitis</b> <ul style="list-style-type: none"><li>Analyzed RNA-seq datasets to map immune response pathways.</li><li><b>Impact:</b> Provided insights for disease diagnosis and therapeutic research.</li></ul>	08/2024 – 12/2024
<b>Lymphatic Filariasis DB Design</b> <ul style="list-style-type: none"><li>Designed and developed a biomedical database with ER diagrams and a prototype web interface.</li><li><b>Skills:</b> Database design, bioinformatics integration, web prototyping.</li></ul>	02/2024 – 05/2024





## EDUCATION

<b>B.Tech Biotechnology</b> <i>NIIT University</i> Relevant Modules: Molecular Biology, Genetic Engineering, Bioinformatics, Analytical Techniques, Cell Biology	2022 – 2026
<b>Class XII</b> <i>City Montessori School (ICSE)</i>	2022
<b>Class X</b> <i>City Montessori School (ICSE)</i>	2020

## SKILLS

PyRx, Discovery Studio, R Programming, NCBI Tools, KEGG, GEO Datasets, PubChem, Molecular Biology (PCR, Gel Electrophoresis), Cell Culture, Spectrophotometry, RNA-seq Analysis, GO/KEGG Enrichment

## CERTIFICATES & LEADERSHIP

Summer Training in Bioinformatics – Biotech Park, Lucknow (Aug 2025)  
Introduction to Bioinformatics & Its Advancements- BioCode (Jun 2025)   
Workshop on Machine Learning & Bioinformatics- NIIT University (Apr 2025)   
Research Intern- RAAV Techlabs (Aug 2024)   
Certificate of Completion- Google Ads Creative, Google (May 2025)   
Certificate of Completion- Google Ads Display, Google (May 2025)   
Member, Organizing Team– ENTENTE 2024, NIIT University (Oct 2024) 