

MANJUR MAHAMAD LORIYA  
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## PROFESSIONAL SUMMARY

Dedicated and detail-oriented MSc bioinformatics graduate with practical experience in NGS data analysis, machine learning and hands-on experience in molecular biology techniques. Proficient in tools such as GATK, VEP, and Biopython, with experience working in Linux environments. Eager to contribute technical and analytical skills to support high-quality bioinformatics research.

## EDUCATION

### M.Sc. in Bioinformatics

Sardar Patel University (SPU), Anand, Gujarat  
Graduated: April, 2025 | CGPA: 8.81

### B.Sc. in Biotechnology

Hemchandracharya North Gujarat University (HNGU), Patan, Gujarat  
Graduated: March, 2023 | CGPA: 8.28

Relevant Coursework: Bioinformatics, Molecular Biology, Genetics, Microbiology, Biotechnology & Biochemistry

## TECHNICAL SKILLS

- **NGS & Clinical Genomics:** FASTQ/VCF handling, variant calling
- **Bioinformatics Tools:** GATK, VEP, SAM tools, ANNOVAR, SnpEff, FastQC, BWA
- **Programming:** Python, Biopython, SQL, R
- **Web development:** HTML, CSS, Flask
- **OS & Scripting:** Linux, Bash scripting, Windows
- **Data Visualization:** matplotlib, seaborn, ggplot2
- **Databases:** NCBI, Ensembl, ClinVar.
- **Wet Lab Techniques:** DNA/RNA extraction, gel electrophoresis
- Strong Analytical and Problem-Solving Skills
- Excellent Communication and Team Collaboration

## PROJECTS

### Identification of Disease-Causing Mutations in Breast Cancer: A Bioinformatics Database Approach

*Biotechnika Info Labs Pvt Ltd, Bangalore, Karnataka | Dec, 2024 – May, 2025*

- Implemented database driven annotation and filtering, structural and functional analysis.
- Employed different machine learning algorithms pipeline for the detection of pathogenicity of genomic mutations in breast cancer.
- Classified variants according to ACMG guidelines.

### **Biopython Based Web Page for Restriction Site Analysis**

*Sardar Patel University, Anand, Gujarat | Aug, 2023 - April, 2025*

- Developed a user-friendly web application utilizing Biopython to identify restriction sites in user-input DNA sequences.
- Implemented front-end design using HTML and CSS, ensuring responsiveness and ease of navigation.

### **CERTIFICATION / COURSES**

- **National Symposium:** “Fusing Biotechnology with Applied and Emerging Sciences: A Multidisciplinary Perspective (FBAES - 2025)” (Mar 5 – 6, 2025)
- **Symposium:** “An Introduction to CRISPR Genome Editing Technology” GSBTM (Mar 12, 2024)
- **Seminar:** “Bioinformatics: A must for every Biologist” by DrOmics Labs (Aug 27, 2023)