Pari Sharma

Microbiologist | Aspiring Bioinformatician

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New Mandi Road, in front of Durga Nursing Home, Dausa

Professional Summary

Motivated MSc Microbiology student with strong academic training in microbiology and hands-on experience in bioinformatics and computational biology. Currently pursuing a dissertation at CSIR-IHBT, Palampur, on single-cell RNA sequencing (scRNA-seq) involving machine learning models for gene expression analysis. Skilled in integrating biological knowledge with computational tools. Eager to contribute to research and innovation in bioinformatics.

Education

M.Sc. in Microbiology (Pursuing 4th Semester)

Mahatma Jyoti Rao Phoole University, Jaipur

Bachelor of Science

S.S.S.D. Govt. Girls College, Dausa

Intermediate

Vidyasthali Public School, Dausa

High School (70%)

3d science academy, Dausa

Dissertation Project

Institute: CSIR-Institute of Himalayan Bioresource Technology (CSIR-IHBT), Palampur

Title: "Single-cell RNA Sequencing Analysis of Prostate cancer.

Conducting a bioinformatics-based analysis of single-cell RNA sequencing (scRNA-seq) data to explore gene expression variability and cellular heterogeneity. The project integrates computational biology and machine learning to identify cell subtypes and marker genes.

Tools & Techniques: scRNA-seq, Seurat, Scanpy, Python, R, data visualization, dimensionality reduction, clustering algorithms.

Internships & Experience

Project Associate – Content Writing

Cognus Technology — 6 months

- Created well-researched and SEO-friendly content for scientific and healthcare topics.
- Developed technical articles, blogs, and reports tailored to industry needs.
- Enhanced scientific writing skills to communicate complex research effectively.

Summer Internship – Botany Department, Rajasthan University (April – June 2024)

- Hands-on training in PCR, gel electrophoresis, laminar airflow, autoclave, and spectrophotometry.
- Gained proficiency in molecular biology lab techniques.

Bioinformatics Training – TaqGene Training and Research Institute (15 days)

- Learned basics of BLAST, FASTA, and sequence alignment.
- Introduction to analysis of DNA, RNA, and protein sequences.

Skills

- Microbiological Techniques: PCR, gel electrophoresis, media preparation, sterilization
- Bioinformatics Tools: BLAST, FASTA, Seurat, Scanpy
- Programming: Python, R
- Data Analysis: MS Excel, Python, emboss, R programming
- Soft Skills: Communication, Teamwork, Time Management, Adaptability

Languages

- English
- Hindi