

## ADITI MISHRA

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### Internships

#### Quality Control and Production Intern

Jun 2025 – Jul 2025

Verka (Doaba Milk corporation)

- Conducted quality control tests for milk and dairy products, including MBRT, Gerber test, and SNF analysis, ensuring compliance with FSSAI and internal quality standards.
- Assisted in monitoring raw milk reception, processing, and packaging quality parameters to maintain product consistency.
- Performed CLR and fat content analysis to assess milk quality and detect adulteration.
- Supported the implementation of standard quality protocols and Good Laboratory Practices (GLP) during daily operations.
- Gained hands-on experience in microbiological testing and hygiene evaluation for dairy products.
- Collaborated with senior QC staff to analyze test results and troubleshoot deviations in milk quality.
- Developed practical understanding of quality assurance, quality control, and food safety management systems in the dairy industry.

### Projects

#### SNP Simulation and Effect Prediction

Apr 2025

- Developed an automated pipeline to translate DNA sequences into protein sequences and compare original proteins with their mutated counterparts.
- By analyzed amino acid substitutions and potential changes in protein structure.
- Was able to predict the functional effects of mutations. This work enhanced the understanding of how genetic variations influence protein function and broader biological processes.
- Integrated molecular biology concepts with computational programming to create a practical, research-oriented bioinformatics tool.

#### Community Development Project

##### Jalandhar Welfare Society

Jun 2023 – Jul 2023

- Conducted road safety awareness campaigns, organized blood donation camps, contributed to tree plantation drives, and collaborated on community outreach programs promoting civic responsibility and environmental sustainability.

### Certificates

SQL for Data Analytic (Intern shala)

Aug 2025

Bio python (Short Term Course)

Arp 2025

Basics of python (Saylor.org)

Oct 2023

### Skills

**Languages:** python, SQL, MS excel, C ,C++

**Technical Skills:** Problem-Solving, Data Analysis & Visualization (Excel, Pandas, Matplotlib),Power point, Creo

### Education

Lovely Professional University Punjab

Aug 2023 – Jul 2027

B.tech (Biotechnology) — CGPA: 7.23

Jalandhar, Punjab

Noida International Public School

May 2020 – Jun 2021

12th (PCB)— Percentage: 73%

Noida ,Uttar Pradesh

BSP Senior Secondary School Sector X

May 2019 – Jun 2020

10<sup>th</sup> – Percentage: 81%

Bhilai, Chhattisgarh