

Anshika Pal

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PROFESSIONAL SUMMARY

Biotechnology graduate specialized in Microbiology with hands-on experience in laboratory diagnostics, microbial analysis, and quality testing. Skilled in aseptic techniques, spectrophotometry, and data interpretation. Seeking QC, fermentation, or lab-based roles in food, brewing, or pharmaceutical industries.

INTERNSHIP

Biotechnologist Intern - Fortis Hospital, Ludhiana

Assisted in microbiology, biochemistry, and hematology diagnostics by processing clinical samples and preparing reports. Operated analytical instruments including spectrophotometer, centrifuge, and autoclave while following biosafety and laboratory SOP protocols.

PROJECTS

Comparative Study of Antioxidant Activity in Beverages

2024

- Conducted quantitative analysis of beverage samples using UV-Vis spectrophotometry.
- Prepared standard curves and interpreted absorbance data.
- Evaluated antioxidant stability across samples.

Water Quality Assessment

2024

- Performed physicochemical analysis of water samples from multiple sources.
- Measured pH, turbidity, TDS, and conductivity using analytical instruments.
- Documented results and assessed compliance with water quality standards.

Multimodal Characterization of Bioactive Compounds in Singapore Daisy

2025

- Analyzed samples using UV-Vis spectrophotometry.
- Performed spectral interpretation to identify compound characteristics.
- Conducted sample preparation, calibration, and data analysis.

Hemolysis Study Under Different Physiological Conditions

2025

- Evaluated hemolysis under normal, stress, dehydration, and starvation conditions.
- Performed enzyme kinetics analysis to determine V_{max} and K_m values.
- Compared physiological effects using controlled experimental design.

Isolation of Pathogenic Microbes from Sewage Samples

2026

- Isolated microbial strains using aseptic techniques.
- Performed antibiotic susceptibility testing (Kirby-Bauer method).
- Analyzed resistance patterns for comparative evaluation.

SKILLS

TECHNICAL

- Microbial Culturing and Aseptic Techniques
- Sterility Testing and Antibiotic Sensitivity
- UV-Vis Spectrophotometry and Data Analysis
- Media Preparation and Autoclave Handling
- Basic Fermentation and Yeast Handling
- GMP, GLP and HACCP Awareness
- Laboratory Instrumentation (Centrifuge, Incubator, Laminar Air Flow)
- SOP Documentation and Reporting

TOOLS AND LANGUAGES

SQL, Excel

SOFT SKILLS

- Analytical and Detail-Oriented
- Scientific Documentation Skills
- Team Collaboration
- Time Management
- Adaptability in Regulated Environments
- Effective Communication

CERTIFICATIONS

Introduction to Data Analytics

Aug 2025

Saylor | Certificate Code: 8483489

Introduction to MS Excel

11 June 2025

Simplilearn by Microsoft | Certificate Code: 8455896

Cracking Microbial Genomes with PCR and Electrophoresis

22 Nov 2025

School of Bioengineering and Biosciences, LPU

Guest Lecture: Good Laboratory Practices (GLP) for the Industries

04 Nov 2025

School of Bioengineering and Biosciences, LPU

MicCon25 International Conference - Oral Presenter

18 June 2025

Madurai Kamaraj University

IDEATHON 4.0 Innovation Challenge - Participant

Nov 2025

Bennett University (SEAS)

EDUCATION

M.Sc. in Microbiology

2025 - 2026

Lovely Professional University, Jalandhar, Punjab

CGPA: 8.01

B.Sc. in Biotechnology

2022 - 2025

Punjab College of Technical Education, Ludhiana

CGPA: 8.68

12th - PCB

2020 - 2022

R.S. Model Sen. Sec. School, Ludhiana

Percentage: 85.4%

10th Standard

2020

Harsh Vidya Mandir, Ludhiana

Percentage: 91%