


Sunayna Kumari

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Nuremberg, Germany

Education

M.Sc. Applied Biotechnology

Hochschule Ansbach – University of Applied Sciences, Bavaria, Germany

Mar 2024 – Present

B.Sc. Biotechnology

GSFC University, Vadodara, Gujarat, India

Sep 2020 – Jul 2023

Work Experience

Work Study – Hochschule Ansbach, University of Applied Sciences

Bavaria, Germany

Mar 2024 – Present

- Engaged in research within applied and industrial biotechnology focusing on molecular biology and bioprocessing.
- Conducting lab work involving protein purification, cell culture, and microbial analysis.
- Developing data-driven and analytical skills for applied biotechnology processes.

Biotechnology Intern – GSFC Agrotech Limited

Vadodara, Gujarat, India

Dec 2022 – May 2023

- Involved in production and quality control of liquid biofertilizers to ensure stability and microbial efficiency.
- Isolated and characterized phosphate-solubilizing bacteria to enhance soil fertility.
- Collaborated with R&D for implementation of quality assurance protocols.

Biotechnology Intern – Bills Biotech Pvt. Ltd.

Vadodara, Gujarat, India

Jul 2022 – Nov 2022

- Gained practical experience in downstream processing and protein purification techniques.
- Assisted in process optimization for improved yield and purity.
- Learned principles of GMP and industrial bioprocess validation.

Projects

Herbal Formulation for Burn Healing Developed a cost-effective herbal topical formulation with enhanced wound-healing properties compared to conventional antimicrobial treatments. Focused on optimizing plant-based compounds for fibroblast regeneration and safety.

Algae-Based Energy Bar Development Researched and formulated an energy bar enriched with Spirulina and Chlorella, combining protein and carbohydrate balance for health and recovery applications. Evaluated its nutritional benefits and promoted algae as a sustainable, functional ingredient for future food innovation.

Skills

Core Expertise: Microbiology, Cell Biology, Protein Purification, Downstream Processing, Bioprocess Engineering

Analytical: Quality Control, Statistical Analysis, Data Interpretation, Instrument Handling

Applied Knowledge: Biofertilizer Production, Food Product Development, Drug Discovery

Technical: GMP Practices, Culture Maintenance, Fermentation Optimization

Certifications

UC San Diego – Drug Discovery

Nov 2020 – Dec 2020

Yale University – Medical Research

Dec 2020 – Jan 2021

Languages

English (Fluent), German (Intermediate), Hindi (Native)