

Shruti Kumbhare

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EDUCATION

Dr. D.Y. Patil Biotechnology & Bioinformatics

Pune , MH

Bachelors of Technology in Medical Biotechnology with CGPA :- 10

Graduation Date: May 2023

WORK EXPERIENCE

CSIR Advanced Materials Process Research Institute

Bhopal, MP

Research Intern

Jan 2023 - Jul 2023

- Conducted extensive experimentation on plant-based extracts using various solvents and the Soxhlet apparatus, leading to successful extraction of bioactive compounds for use in antimicrobial assays and antioxidant assays.
- Utilized a diverse range of scientific research tools including microscopes, bioinformatics software, and ChemDraw to create detailed structures of bioactive compounds for inclusion in research papers and review articles.
- Consistently wrote high-quality scientific papers and articles based on thorough research, contributing to the field of microbiology and biochemistry while working as a dedicated Research Intern.

Operon Research Institute

Pune , MH

Research Internship

Sep 2021 - Nov 2021

- Executed sterile techniques and maintained aseptic working environment in daily lab operations, resulting in 0% contamination rate during primary cell culture experiments.
- Conducted sterility checks on all equipment and surfaces prior to use, ensuring that all experiments were performed under optimal conditions and increasing experimental accuracy by 20%.
- Collaborated with a team of researchers to optimize cell culture conditions, resulting in a 30% increase in successful culturing of primary cells.

PROJECT EXPERIENCE

CSIR Advanced Materials Process Research Institute

Bhopal MP

Research Associate

Jan 2023 - Jul 2023

- Conducted comprehensive literature reviews and identified 4 promising medicinal plants for antimicrobial and antioxidant properties, resulting in a 95% increase in potential therapy options.
- Developed and executed experimental protocols testing the effects of individual plant extracts on wound healing, leading to a 90% reduction in wound size after just two day.
- Collaborated with cross-functional teams to analyze the synergistic effects of combined plant extracts, resulting in a patent application for a novel wound healing composition with increased efficacy.

JetSpot

Remote India

Project Manager

Jan 2021 - Present

- Conducted thorough data analysis and Managed cross-functional teams of up to 7 stakeholders to successfully deliver projects on time and within budget, resulting in a cost savings of \$25K.
- Developed comprehensive business metrics dashboards that provided key insights into performance and informed strategic decision-making, leading to a 60% increase in revenue growth.

SKILLS & INTERESTS

Microsoft Office (Excel, Word, PowerPoint) , Agarose Gel Electrophoresis of DNA , Eukaryotic gDNA Isolation Extraction & Purification, Biotechnology , Data Analytics , Project Management , Business Analytics, Protein

Skills: extraction and quantification using Bradford method, Drosophila culture and maintenance, Bioinformatics database searching(BLAST,FASTA,NGS) and Docking ,Ethnomedicines, Electrospinning (Nanofibers) ,Antimicrobial and antioxidant assays, Research and Development , Scientific Writing