

Anusha Sree.S.V

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EDUCATION

Vellore Institute of Technology
B. Tech in Bioengineering – 8.87 CGPA

Bhopal, MP

September 2022 – July 2026

VAV International School
Class XII – 83.8%

Tirupur, TN

April 2021 – May 2022

Kovai Vidyashram
Class X – 88.8%

Tirupur, TN

April 2019 – May 2020

DOMAIN SKILLS

Bioinformatics tools, Biotech Research, Molecular Biology, Python, MATLAB(Basics), JAVA(Basics), Tableau.

CERTIFICATES

- Molecular Biology Mentorship – Sangene Biotech, along with IIT Roorkee — *August 2024*
- Occupational Safety and Health: Blood-Borne Pathogens — *May 2024*
- ISO 13485:2016- Quality Management Systems for Medical Devices — *May 2025*

PROJECTS

Soil Health Management Technologies / *Researcher*

February 2024 - April 2025

- Assessed and analyzed advancements in soil health management techniques for sustainable agriculture.
- Evaluated innovative soil restoration methods, enhancing nutrient retention and crop yield.
- Investigated the impact of emerging technologies on soil health, including bioengineering applications.

Sustainable Agriculture Using Edible Halophytes / *Lead Researcher*

April 2023 - February 2024

- Developed innovative agricultural model using salt-tolerant plants, achieving 40% reduced water consumption.
- Identified and optimized growth conditions for 5 edible halophyte species.
- Implemented eco-friendly farming practices, resulting in a 30% improved crop yield.

DNA Toolkit and Genome Toolkit Using Python / *Developer (On-going)*

March 2025 - May 2025

- Developing a Python-based toolkit for DNA and genome analysis tailored for molecular biology applications.
- Leveraging libraries including Biopython, pandas, NumPy, and re for efficient sequence processing and genomic data manipulation
- Implementing features for transcription, translation, mutation analysis, and sequence alignment.

WORK EXPERIENCE

Research Intern – Sangene Biotech, Bengaluru

June 2024 - July 2024

- Engineered and executed HES1 gene cloning strategy into pEYFP-N1 vector, achieving successful integration.
- Validated gene insertion through sequencing and quantified HES1 overexpression using qPCR and Western blotting.
- Designed and optimized qPCR primers for NQO2 gene expression analysis using bioinformatics tools.

Marketing Lead – Health-O-Tech, VIT Bhopal

August 2023 - July 2024

- Designed digital marketing strategies across social media platforms to build a strong club presence and attract interdisciplinary participation.
- Collaborated with team members to plan and execute health innovation initiatives, including speaker sessions and hackathons.

ACHIEVEMENTS

TCS CodeVita S'12: Participated in a competitive pool of global participants.

Marketing Lead: Health-O-Tech, VIT Bhopal

Lead Volunteer: Health Hackathon organized by VIT Bhopal and Johns Hopkins University, USA (February 2025)