

Anusha Sree.S.V

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EDUCATION

Vellore Institute of Technology

B. Tech in Bioengineering – 8.89 CGPA

VAV International School

Class XII – 83.8%

Kovai Vidyashram

Class X – 88.8%

Bhopal, MP

September 2022 – July 2026

Tirupur, TN

April 2021 – May 2022

Tirupur, TN

April 2019 – May 2020

DOMAIN SKILLS

Bioinformatics tools, Biotech research, Molecular biology, Python, MATLAB(Basics), JAVA(Basics), Tableau.

CERTIFICATES

- Molecular Biology Mentorship at Sangene Biotech, along with IIT Roorkee — August 2024
- ISO 13485:2016- Quality Management Systems for Medical Devices by SM Waqas Imam (Lean Six Sigma Professional) — May 2025
- Foundations of Healthcare Management by SM Waqas Imam (Lean Six Sigma Professional) — June 2025
- Pharmacogenomics: From basics to analysis and interpretation (Udemy) — June 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)

Industry Conclave 2024: Finalist for poster presentation on the topic "Lupus: An Overview of the Disease and Management Options" organised by VIT Bhopal.