

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 – 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 — *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.