Anusha Sree.S.V

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# Education

**Vellore Institute of Technology** Bhopal, MP

*B. Tech in Bioengineering – 8.87 CGPA September 2022 – July 2026*

**VAV International School** Tirupur, TN

*Class XII – 83.8% April 2021 – May 2022*

**Kovai Vidyashram** Tirupur, TN

*Class X – 88.8% 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)