

Velentina K F

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Professional summary

Passionate about integrating biotechnology and computational biology to advance biomedical research and disease understanding. With academic training in molecular biology, research internships, and scientific publications, I have developed a strong foundation in life science research. Interested in digital pathology and computational approaches for biological data analysis to support innovative diagnostics and improved healthcare outcomes.

Educational qualification

- **MSc Biotechnology:** Bharathiar University, Coimbatore | 2024 - 2026
 - **BSc Biotechnology:** SNMV College of Arts and Science, Coimbatore | 2021-2024
 - **Diploma in Mushroom Cultivation:** SNMV College of Arts and Science, Coimbatore | 2021-2022
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Technical skills

- **Biotechnology techniques:**
 - Polymerase Chain Reaction (PCR)
 - Next Generation Sequencing (NGS)
 - Basic Molecular Biology Techniques
 - **Programming:** C, C++, Python, R, SAS, ML, DL
 - **Data & Software Tools:** Microsoft Office Suite, Advanced Excel
 - **Business Software:** Tally ERP 9, Tally Prime
 - **Soft skills:** Communication, Active listening, Team collaboration, Leadership, Adaptability
 - **Languages:** Tamil, English
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Project

Integrated Multi-Task Deep Learning Framework for Colorectal Cancer Diagnosis

Developed an integrated deep learning framework for colorectal cancer diagnosis through analysis of histopathological and biological data, supporting computational disease modeling and digital pathology-based diagnostic research.

Publications

- *Annona muricata (Soursop): A Wonder Plant to Treat Cancer*, Book Chapter published in **Innovative Trends in Biological Science**.

- *Role of Aspergillus tubingensis in Mycoremediation of Polyurethane*, Book Chapter published in **Algal, Fungal and Microbial Research**.
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Internships

- ❖ **ACL Digital (Life Sciences) | May – June 2025**
Academic Project Intern
Contributed to **life science research projects by supporting biological data analysis, research documentation, and interpretation of scientific information**, gaining exposure to industry-oriented research workflows in biotechnology and healthcare applications.
 - ❖ **Institute of Forest Genetics and Tree Breeding (IFGTB-ICFRE), Coimbatore | July 2023**
Gained interdisciplinary training in **forest genetics, molecular biology techniques (DNA isolation and molecular markers), microbial isolation for biofertilizers, soil and plant analysis, GIS and remote sensing applications, and compound characterization using UV, TLC, HPLC, and GC-MS**, strengthening practical research and analytical skills in biotechnology and environmental sciences.
 - ❖ **Srimad Andavan Arts & Science College, Trichy | June 2023**
Developed hands-on experience in **zebrafish model handling, breeding, dissection, toxicity studies, water quality analysis (BOD, COD, TDS, DO), nanoparticle synthesis, in-silico studies and molecular docking**, gaining exposure to experimental and computational approaches used in biomedical research.
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Certifications

- **Next Generation Sequencing Technologies: Data Analysis and Applications** — NPTEL (2024)
 - **PCR Technology** — Naan Mudhalvan (2023)
 - **Microsoft Office 365 Suite** — Naan Mudhalvan (2023)
 - **Demystifying the Brain** — NPTEL (2022)
 - **Standard Precautions: The Role of Personal Protective Equipment (PPE)** — WHO (2021)
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Conferences, Symposium & Workshops

- **IASCT, CONSPIC 2025** - Poster Presentation: *Automated and Reproducible Framework for Comparative Analysis of Clinical Conditions Using R & RMarkdown*
 - **International Symposium on Aging and Age-related Disorders, 2025** – Bharathiar University
 - **Regional & State Level Workshop on Astronomy, 2023** - Galileo Science Club (VP-TN0014), supported by Vigyan Prasar (DST, Govt. of India), Ariviyal Palagai, and Tamil Nadu Science & Technology Centre
 - National Conference **MOTIF, 2023** – Bharathiar University
 - National Conference **MCCH-2023** – Bharathiar University
 - National Conference **“The Zeal of Biotechnology in the Proximate Era”, 2022** – SNMV College of Arts and Science
 - **8th International Conference on Recent Advances in Bioscience, 2021** – KSG College of Arts and Science
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Achievements

- **University Rank Holder (Rank 8)** - Secured top academic standing in **B.Sc. Biotechnology, Bharathiar University**.
- **Best Outgoing Student (2023–2024)** - Recognized by the **Department of Biotechnology, Shri Nehru Maha Vidyalaya College** for outstanding academic performance and overall contribution.
- **Citizen Scientist - International Astronomical Search Collaboration (IASC)** — Contributed to asteroid search campaigns using **NASA PAN-STARRS telescope data**, supporting global astronomical research initiatives.
- **TCS Campus Ambassador (2023–2024)** - Selected to represent **Tata Consultancy Services**, coordinating campus engagement activities and promoting industry–academia collaboration.
- **NSS Volunteer** - Actively participated in community service initiatives, contributing to **social outreach, awareness programs, and volunteer activities**.