

DARSHINI B

CONTACT



9445113579



darshinibalaji643@gmail.com



Chennai, India

ACHIEVEMENTS & EXTRACURRICULAR ACTIVITIES

- Attended the international conference "ICTBR 2K22" on current trends in biomedical research in association with SMBPS at Saveetha College.
- Participated in DNA Day 2023 symposium cum workshop at VIT Vellore, including guest lectures and hands-on training in DNA magnetic bead separation.
- Participated in and won several intercollegiate technical events.
- Volunteered, coordinated, and organized multiple National Science Day programs; received certificates for leadership roles.
- Active NSS Volunteer; contributed to environmental cleaning drives and participated in a Special Camp.

INTERNSHIPS

Mainflow Services and Technologies Pvt Ltd

March 5, 2025 - April 5, 2025

(Online)

- Performed SQL - based data analysis to extract and interpret key data insights.

Lifecell International Pvt Ltd

February 7, 2023 - February 11, 2023

- Gained insights on "Stem Cell Banking".

CAREER OBJECTIVE

Grounded in experimental biology and computational science, I combine laboratory experience with proficiency in bioinformatics and data analysis. My interests lie in genomics, molecular diagnostics, and biomedical data analysis, applying data-driven approaches to derive biological insights. I aim to contribute to impactful research advancing genetic disorder understanding and diagnostic innovation.

EDUCATION

M.Sc. in Bioinformatics and Data Science 2024-2026

Sathyabama Institute of Science and Technology, Chennai, India

CGPA : 8.2

B.Sc. in Medical Genetics

2021 - 2024

Chettinad Academy of Research and Education, Chennai, India

CGPA : 8.9

PROJECT AND PUBLICATION

UG DISSERTATION: "Analysis of Antimicrobial and Antioxidant Properties of Fruitflow® on Bacteria" - Investigated the bioactive potential of fruit-derived compounds on microbial strains.

PG DISSERTATION: "Network-Based and Causal Inference Analysis of Transcriptomic Dysregulation in MASLD" - Performed integrated transcriptomic, co-expression network, and causal mediation analyses to investigate molecular mechanisms underlying MASLD progression, identify hepatoprotective regulatory networks and hub genes.

Publication: Signaling Pathways in Trans-differentiation of Mesenchymal Stem Cells: Recent Advances

Authors: Vaishak Kaviarasan, Dikshita Deka, Darshini Balaji, Surajit Pathak, & Antara Banerjee

Journal: Methods in Molecular Biology (Vol. 2736, pp. 207-223), Springer.

Year: 2023

NPTEL CERTIFICATIONS

- RNA Biology - IISER Mohali (12 weeks)
- Functional Genomics - IIT Kanpur (4 weeks)
- Python for Data Science - IIT Madras (4 weeks)
- Patent Drafting for Beginners - IIT Madras (4 weeks)