

A. VAISHNAVI

vaisharun.bt@gmail.com | +919791020456 | Hyderabad 500047

<https://www.linkedin.com/in/vaishnavi-arunachalam-24996515>

PROFESSIONAL SUMMARY

Biotechnologist with 13 years of experience in research, journal editing, and education. Proven track record in coordinating ecological initiatives and promoting environmental sustainability awareness during the professional tenure. Strong communication skills and ability to adapt quickly to new challenges. Moving towards a career in environmental sustainability and ESG.

STRENGTH AND SKILLS

- Research oriented knowledge in agriculture microbiology
- Drafting scientific research and academic documents
- Environmental awareness
- Editing and proofreading documents
- Innovative problem solving
- Presentation skills
- Effective communication
- Critical thinking
- Educational mentoring

Skills attained through BCG Climate and Sustainability Job Simulation on Forage, September 2025

- Completed a carbon emissions analysis simulation for the Sustainability Team, using Excel to calculate baselines and comparing data from the CDP database for accuracy.
- Analyzed and recommended carbon reduction initiatives for fast cars to achieve net zero, considering effective scope 3 strategies
- Crafted clear emails and a presentation to communicate findings and recommendations to the client
- Adapted messaging strategies to address investor concerns, aligning with Fast Cars' sustainability goals

COMPUTER PROFICIENCY

- Usage of MS Office tools: MS Word, MS Excel, MS PowerPoint, MS Whiteboard with stylus
- Created augmented reality 3D models using the SPARK AR tool
- Gen AI: Foundational level

ACADEMIC DETAILS

- AISSE (Class 10) Central Board of Secondary Education, New Delhi, March 2002 GPA: 77.6
- AISSCE (Class 12) Central Board of Secondary Education, New Delhi, March 2004 GPA: 75.2
- B.Sc., Biotechnology, Bharathidasan University Tiruchirapalli, Tamil Nadu, May 2007 GPA: 70.7
- M.Sc., Biotechnology, University of Madras Chennai, April 2009 GPA: 76.75
- UGC Certificate Course, Environmental Studies, Bharathidasan University

- Tiruchirapalli, Tamil Nadu, *May 2007 GPA: 68*
- Diploma in Clinical Microbiology, Bharathidasan University
Tiruchirapalli, Tamil Nadu, *May 2007 GPA: 67*
- B.Ed, Rajasthan, Singhania University
Rajasthan, *Apr 2016 GPA: 70.7*

WORK EXPERIENCE

Biology Faculty (TGT), Vidya Mandir Estancia, Vallanchery, Tamilnadu

Apr 2018 - Mar 2025

- Board: CBSE Curriculum.
- Experience in handling biology theory and practicals for secondary level.
- Conducted biology practical sessions for senior secondary level (including CBSE board practicals)
- Coordinated various scholastic and co-scholastic activities included in the curriculum.
- Handled General Studies for higher secondary where the students were trained to enhance their communication skills through different kinds of projects, survey and presentation.
- Coordinated for ecological activities aligned with **UN SDGs** recommended by CBSE as a part of co-scholastic work.
- Coordinated for activities conducted as a part of "**Green School Programme**" annually audited by Centre for Science and Environment.
- Mentored the students for scientific projects and interschool competitions.
- Coordinated with peer-group to conduct various inter-school and intra-school activities.
- Experience in *CBSE board evaluation* for AISSE examination.
- Maintained and updated knowledge through continuing education and advanced training as a part of Capacity Building Programme (CBP) and Continuous Professional Development (CDP).
- Contributed innovative ideas and solutions to enhance department performance and outcomes and worked successfully with diverse group of coworkers to accomplish goals and address issues related to students.
- Collaborated closely with higher authorities and parents to achieve good student performance. Approached parents and management and engaged in conversation through use of effective interpersonal and people skills.
- Performed trend analysis to improvise teaching methodologies and address learner issues.
- Worked with cross-functional departments to achieve goals and provided support and guidance to colleagues to maintain a collaborative work environment.

Science Faculty (TGT), Srimathi Sundaravalli Memorial School Perungalathur, Tamilnadu

Jun 2013 - Oct 2016

- Board: CBSE curriculum
- Experience in handling consolidated science covering topics of physics, chemistry and biology for high school level.
- Coordinated for various scholastic and co-scholastic activities as a part of CBSE curriculum.
- Worked successfully with diverse group of coworkers to accomplish goals and address issues related to students.
- Worked according to the needs of management and parents promptly and efficiently.

Language Editor, Scientific Publishing Services, Chennai, India

Jun 2012 - Feb 2013

- Company Overview: Journal and Book editing and publishing services

- Job role as a language editor for Taylor and Francis Publications.
- Edited manuscripts for clarity, coherence, and consistency in language.
- Edited documents to fix grammatical, spelling, and typographical errors.
- Suggested alternative words or phrases where appropriate during editing process.
- Conducted research online to find relevant sources for use in documents.
- Ensured compliance with journal formatting style guide for submissions.
- Analysed text for clarity, conciseness, and adherence to established standards.

Senior Research Scholar, University of Delhi South Campus, New Delhi, India
Oct 2009 - May 2012

- Worked under Department of Biotechnology funded project in collaboration with Indian Agricultural Research Institute (IARI).
- Field of Research: Agricultural Microbiology.
- Presented research findings on a regular basis.
- Coordinated laboratory activities to ensure compliance with safety standards.
- Drafted manuscripts(chapters) for publication in books, contributing to academic knowledge.

PUBLICATIONS

- *Regulation of antibiotics production in biocontrol strains of Pseudomonas spp., 197-225. Sheela Srivastava, Vidusha Sinha, A.Vaishnavi, Tanvee Kunwar and Reena Sandhya Tigga. In: Satyanarayana T., Johri B.N., Anil Prakash (eds). Microorganisms in sustainable Agriculture and Biotechnology, Springer, 2012.*
- *Kochar, M., Vaishnavi, A., Upadhyay, A. and Srivastava, S. (2013) Bacterial Biosynthesis of Indole-3-Acetic Acid: Signal Messenger Service, in Molecular Microbial Ecology of the Rhizosphere: Volume 1 & 2 (ed F. J. de Bruijn), John Wiley & Sons, Inc., Hoboken, NJ, USA. doi: 10.1002/9781118297674.ch29*
- Maintained detailed records of all research activities and prepared reports summarizing the findings.
- Participated in regular meetings with faculty advisors to discuss progress on assigned tasks.
- Used Microsoft tools effectively to compile, analyze and present data to effectively communicate the results to peer-research scholars and advisory faculty.
- Planned materials, resources, and execution to adhere to budget.
- Conducted fieldwork, applying rigorous methodologies to gather primary data.
- Engaged with the academic community through seminars, workshops, and peer reviews.

Dissertation Researcher, University of Delhi North Campus, New Delhi, India
Dec 2008 - Feb 2009

- Dissertation work entitled Studies on Recombinant Human Prolactin.
- Prepared comprehensive reports detailing research findings and insights.

Research Trainee, Jawaharlal Nehru University, New Delhi, India
May 2008 - Jul 2008

- Hands on training in the field of Radio protective effect of Aloe vera in the murine hepatic system.
- Assisted in data collection and analysis for the studies.
- Maintained accurate records of experiments and research activities.
- Participated in discussions with fellow trainees and faculty for research progress.

PROFESSIONAL CERTIFICATIONS

- Carbon accounting masterclass - Tattva ESG Academy
- BCG- Climate and Sustainability Job Simulation from Forage
- Level 1: CSRD fundamentals, CSRD Institute
- ESG in 9 weeks- ED4S Academy
- Diploma in Sustainability and ESG - Udemy
- Introduction to Regulatory Compliance - Udemy
- Generative AI Foundation Certificate Program by UPGRAD Academy in collaboration with Microsoft
- GenAI for beginners - Udemy
- Course completion certificate for Augmented Reality (AR) by the School of Innovation from Facebook in collaboration with CBSE
- Certification by NABET QCI for awareness of documentation related to the accreditation manual and procedures
- Completed various CBSE COE certifications on ICT tools in teaching, classroom management, pedagogical processes, competency-based learning, experiential learning, art-based learning, inclusive classrooms, blended learning, and flipped classrooms
- Certification on cybersecurity by CBSE

ACCOMPLISHMENTS

- **University rank award (university of madras)**
MSc in Biotechnology (2007-2009), University, 5th rank in the University of Madras, Chennai, Tamil Nadu
- Cleared **Central Teachers Eligibility Test (CTET)** conducted by CBSE.

LANGUAGE PROFICIENCY

English: reading, writing, and speaking

Hindi: reading, writing, and speaking

Tamil: speaking

Sanskrit: reading and writing

HOBBIES AND INTERESTS

- A music lover Trained Carnatic singer with a flair for music, achieved many district-level awards for Carnatic singing.
- Passion for painting.
