

Sayan Bhowmik

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About Me

I am a dedicated postgraduate in Genetics and Plant Breeding with a strong interest in contributing to sustainable agriculture. I am hardworking, honest, and eager to learn, and I work comfortably both independently and as part of a team. I bring strong communication skills, a positive attitude, and a practical, solution-oriented mindset. I am keen to apply my scientific knowledge to improve crop performance, support livelihoods, and promote environmental sustainability through development-focused agricultural programs.

Education

Masters of Science in Genetics and Plant Breeding

Ramakrishna Mission Vivekananda Educational and Research Institute (2024–2026)
CGPA - 7.94

Bachelor of Science in Agriculture

Hemvati Nandan Bahuguna Garhwal University, Uttarakhand (2019-23)
CGPA - 7.04

West Bengal State Council of Technical & Vocational Education and Skill Development

Vidyanagar GayaramDasVidyamandir (2018)
Percentage: 74.80

West Bengal Board of Secondary Education

Shyambati RadhaKrishnaBhowmickVidyapith (2016)
Percentage: 55.57

Field Experience

Rural Agricultural Work Experience (RAWEx)

Krishivan Research Centre (KRCADePS), Dehradun

January 2023 – May 2023

- Performed mushroom cultivation operations spanning substrate preparation, spawning, incubation, crop management, harvesting, and post-harvest handling.
- Assisted in apiculture (beekeeping) operations, including hive inspection, colony management, bee species identification, honey extraction, and bee health maintenance.
- Carried out food processing and value addition of agricultural products through cleaning, grading, preservation, packaging, and quality assessment.
- Conducted organic composting and vermicomposting using farm residues, managing worm bed preparation, moisture/temperature control, and compost quality evaluation for sustainable nutrient recycling.
- Built farm management, record-keeping, teamwork, and extension/communication skills through direct interaction with farmers and rural communities.

Title – Evaluation of Finger Millet Genotypes for Selenium Accumulation and Nutritional Value.

- Evaluated 3 finger millet genotypes under different selenium treatments including seed priming and foliar application.
- Recorded and analyzed morphological, physiological, and nutritional traits.
- Performed statistical analysis using ANOVA and interpretation of experimental data.
- Assessed selenium accumulation and nutritional quality parameters in grain samples.
- Prepared technical reports, presentations, and dissertation documentation.
- Developed skills in experimental design, data collection, data analysis, and scientific writing.

Training

Bioinformatics with AI

- Learned bioinformatics fundamentals and biological data analysis.
- Gained knowledge of AI and Machine Learning applications in genomics and proteomics.
- Acquired basic skills in sequence analysis, biological databases, and computational biology.
- Explored AI-driven approaches for precision medicine, biotechnology, and biomedical research.

Climate Smart Agriculture Technologies

- Learned climate-smart agriculture principles, climate change adaptation and mitigation strategies.
- Gained knowledge of conservation agriculture, precision farming, climate-resilient crop production, and sustainable resource management.
- Acquired understanding of climate-resilient technologies, carbon management, weather-based advisory systems, and water-efficient agricultural practices.

Latest IT Innovations for Agriculture Sector

- Learned applications of AI, Machine Learning, IoT, GIS, Remote Sensing, and Big Data Analytics in agriculture.
- Gained knowledge of precision farming, smart irrigation, digital agriculture, farm management systems, and ICT-enabled agricultural decision support.
- Developed an understanding of emerging technologies for crop monitoring, yield prediction, sustainable agriculture, and agricultural supply chain management.

ECHO – Carbon Credits in Food and Agriculture, Carbon Finance, and Carbon Farming

- Learned the fundamentals of carbon credits, carbon farming, and carbon finance.
- Gained knowledge of carbon sequestration, GHG emission reduction, and sustainable agricultural practices.
- Understood carbon accounting, climate-smart agriculture, and agricultural carbon markets.
- Explored the role of carbon credits in promoting sustainable and climate-resilient farming.

Research Skills

- Field Experimentation
- Selenium Biofortification
- Trait Evaluation
- Data Recording
- Statistical Analysis (ANOVA)
- Report Writing
- Scientific Presentation

Technical Skills

- Microsoft Excel
- Microsoft Word
- Microsoft PowerPoint
- R Studio (Basic Statistical Analysis)
- Data Analysis
- Canva

Core Competencies

- Quick Learner
- Logical Thinking
- Management Skills
- Communication & Observation
- Leadership & Multitasking
- Problem Solving
- Teamwork

Language Proficiency

- Bengali (Native)
- Hindi (Speak and Read)
- English (Read, Write, Speak)

References

References available upon request