

# Aarohi Gaikwad

Second-year Biotechnology student,  
MES Abasaheb Garware College, Pune.



[Linkedin Profile](#)

[My Website](#)

Current CGPA(SEM3): 8.85

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## Research and Work Experience

- [On-Job Research Training](#) | [Agharkar Research Institute, Pune](#) | [1 Month](#)
  - Hands-on experience with PCR, HPLC, GCMS, Sanger sequencing, and microscopy. The training greatly enhanced my passion for research.
- [Internship](#) | [Sheetal Laboratory, Pune](#) | [1 Month](#)
  - Performed water testing, improving skills in dilutions, moles, conversions, and pH analysis.
  - Developed precision and practical expertise in basic laboratory procedures.

## Relevant Skills

- [Molecular Biology Techniques](#):
  - PCR, Sanger sequencing, CRISPR-Cas9
  - DNA & plasmid isolation
  - Competent cell preparation & transformation
- [Analytical Techniques](#):
  - HPLC, GCMS, LCMS
  - Agarose gel electrophoresis
- [Microbiology Techniques](#):
  - Plating techniques, blue-white screening
  - Gram staining, fungal staining, endospore staining
- [Biochemical & Environmental Analysis](#):
  - Water testing (pH analysis, dilutions, moles & conversions)
  - Soil active carbon estimation
- [Scientific Communication](#):
  - Research proposal writing
  - Scientific & review article writing
  - Essay & blog writing

# Workshops and Courses

- IISER Pune Gene Editing Through CRISPR-Cas9 Workshop: The workshop strengthened molecular biology basics and I got to learn and perform the revolutionary CRISPR-Cas9 technique
- Microbial Genomics Course | Biogrademy: The course enhanced my understanding of fundamental concepts, such as genomics, and gave me a strong foundation.
- Science Through Theatre Workshop | TIFR Hyderabad:  
The workshop gave me valuable insights into communicating science through theatre, sparking my interest in this creative approach where art and science intersects seamlessly.
- MACS- Agharkar Research Institute HPLC, LCMS, GCMS Analytical equipment workshop: Hands-on Training of High-end Analytical equipment
- MES Abasaheb Garware College Scientific Writing Course: Improved academic and research communication skills. Learned to write research papers, review articles, scientific blogs, and research proposals.
- Catalase Breaking The Bad Workshop | IISER Pune (Jan 2024): Trained in: Plant genomic DNA extraction, Polymerase Chain Reaction, Agarose Gel Electrophoresis, Measurement of Enzyme Activity.

## Projects:

- Rhizobium Isolation from Biofertilizers: Conducted research and analysis at the KISAAN Agricultural Convention.
- Active Carbon Estimation in Soil: Developed and tested a protocol for soil analysis.
- Both projects contributed to increasing awareness among farmers from across India who attended the convention, helping them better understand and improve their soil health.
- I surveyed the “ Correlation of Plants with our Mental State,” analyzed the data, and created a detailed report on it.

# Achievements, Leadership and Outreach:

- I was the only first-year bachelor's student from my college to be selected for the On Job Training Program at Agharkar Research Institute, Pune.
- All India Rank 1: Science-Based Essay Writing Competition | Khula Aasmaan, SPPU (2019).
- Represented MES Abasaheb Garware College and SPPU at the KISAAN Agricultural Convention. (2024)
- Led a team of undergraduate researchers to execute two projects at the KISAAN Agricultural Convention, improving problem-solving and collaboration skills.
- Our project provided valuable insights to farmers, helping them better understand their soil health. Contributing to this initiative was a deeply rewarding experience
- Volunteered for the National Service Scheme(NSS) Campus Cleaning and Poster Making Drives to promote Environmental Awareness at Abasaheb Garware College. (2024)
- Participated in a Rally for River Bank Conservation with Pune River Revival, Pune. (2023)

## Hobbies

- Sports: Mountaineering, Swimming, Badminton
- Creativity: Enjoy Classical Music, Theatre, Painting
- Personality Development: Journaling, Writing Articles, Reading
- Staying updated on cutting-edge research