

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 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 Techniques: PCR, HPLC, GCMS, Sanger sequencing, DNA Isolation, Plasmid Isolation, CRISPR-Cas9, Preparation of competent cells, and transformation of cells.
- Laboratory Skills: Water testing, dilutions, pH analysis.
- Scientific Communication: Essay writing, Review writing, and research paper writing.
- Microbiological Skills: Plating Technique, Blue White Screening, Staining Technique (Fungal, Endospore and Gram Staining)

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.
- I surveyed the “ Effect of Plants on our Mental State,” analyzed the data, and created a detailed report on it.

I am proud of:

Achievements

- 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).

Leadership and Outreach

- Represented MES Abasaheb Garware College and SPPU at the KISAAN Agricultural Convention.(2024)
- Actively led a team in executing two research projects during the convention. (2024)
- 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 Conservation with Pune River Revival, Pune. (2023)

Hobbies

- Sports: Mountaineering, Swimming, Badminton
- Creativity: Enjoy Classical Music, Theatre, Painting
- Personality Development: Journaling, Writing Articles, Reading
- Learning about ongoing research in Biology.