

# Kajal Singh

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## SKILLS

### PROBLEM SOLVING

MS PowerPoint • MS Word

### LANGUAGES

• Java • C

### LAB TECHNIQUES

• Chromatography  
• Gram Staining  
• Agarose Gel Electrophoresis  
• Microscopy

## EDUCATION

### BHARATI VIDYAPEETH UNIVERSITY

B.SC.IN BIOTECHNOLOGY

May 2026 | Pune, Maharashtra  
Rajiv Gandhi Institute of IT And  
Biotechnology

### SARYU ADARSH BALIKA INTER COLLEGE

Grad. April 2023 | Colonelganj, Gonda

## LINKS

Github:// kajalverse

Linkedin:// kajalss2603

## COURSEWORK

### GRADUATE

Quantum Mechanics  
Electrodynamics  
Physical Chemistry  
Evolutionary Theory

### UNDERGRADUATE

Lab Techniques  
Model Presentation  
Workshops  
Molecular Modeling  
Spectroscopy And Analytical Techniques  
Molecular Biology  
Developmental Biology  
Microbiology  
Biochemistry  
Environmental Biotechnology  
Plant Science  
Animal Science

## WORK EXPERIENCE

### | STUDENT

July 2023 – Present | Pune, Maharashtra, India

- In Plant Science Lab study of different types of fruits and structure of seeds and Study of Anatomy of Dicot and Monocot plants.
- In Animal Science Lab Study of earthworm ,study of visceral organs and digestive system of earthworm and study of parasites their **morphology**,mode of **infection,pathogenicity** and control measures.
- Study of Honey Bees their products (Honey,wax,and royal jelly ets.) And the study of types of silkworm and their economic importance and the visit to the **Sericulture Industry**.
- In Biochemistry Lab Study of **Biochemical reagents** ,Isolation of **Starch from Corn**, Isolation of **Casein Protein from Milk**.
- In Microbiology Lab study of Introduction of Microscopy,Preparation of Media and their Applications , study of staining techniques **gram staining,negative staining,monochrome staining**.
- Study of **Staining of Cell Organelles**(Capsule,Spore,Cell wall), study of Pure Culture techniques, Study of observation of Bacterial motility.
- Study of **Antibiotic susceptibility by Disc diffusion assay**,study of Isolation and Staining of Fungi and Yeast from Natural environment.
- In Cell Biology Lab Study of **Blood cell** types,study of identification of **Human blood groups**, study of **Mitois** by preparing temporary mount of **Onion root tip**.
- In Molecular Biology Lab Study of Isolation of **Genomic DNA** from Plant cell,study of **Analysis of DNA by Agarose Gel electrophoresis**.
- Study of **Widal Test** used for diagnosis of **Typhoid Fever** ,which is caused by the bacteria Salmonella typhi and Salmonella paratyphi.
- In Analytical Techniques Lab Study of separation of biomolecules by using **Dialysis technique** , study of **Immobilization of Enzyme**.
- Study of separation of biomolecules based on their size by **Gel Filtration Chromatography**,study of **Protein purification by Affinity chromatography**.
- In Developmental Biology Study of Different types of Eggs, study of cleavages in frog , study of **Blastula and Gastrula** in(Insect,Amphioxus,and frog) , Study of Preparation of whole mount **Chick Embryo**.
- Study of permanent Slides of Chick embryo( 18h,24h,48h,72h,96h).
- In Environment Biotech Lab study of **Dissolved Oxygen (DO)**in water sample,study of **Biochemical Oxygen Demand (B.O.D)**in water sample.
- Study of **Chemical Oxygen Demand (C.O.D)** in waste water sample, study of Preparation of Vermicompost pit, study of production of **Biogas**,and Biogas plant visit.

## PERSONAL PROJECTS

| **SOIL MONITORING BIOSENSOR** | **BORDETELLA PERTUSSIS MODEL** | **SUSTAINABLE PACKAGING** |

## FUN FACTS

### HOBBIES

• Reading • Writing • Swimming

### VOLUNTEER EXPERIENCE

Community Volunteering • @National Service Scheme