

# Pratik Goyal

Sophomore Year (B.Tech) | Biotechnology | IIT Jodhpur  
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## EDUCATION

### IIT JODHPUR

B.TECH IN BIOTECHNOLOGY  
Expected 2022 | Jodhpur, India  
CGPA: 7.17/10 (upto 4th sem)

### SARASWATI VIDYA MANDIR

HIGHER SECONDARY EDUCATION  
CBSE | March 2017  
Percentage: 79/100

### SARASWATI VIDYA MANDIR

SECONDARY EDUCATION  
CBSE | March 2015  
CGPA: 10/10

## COURSEWORK

### UNDERGRADUATE

Linear Algebra and Calculus  
Differential Equations and Complex Analysis  
Probability, Statistics and Random Processes  
Computer Programming  
Data structures and Algorithms  
Signals and Systems  
Genetics and Recombinant DNA Technology  
Bioprocess and Fermentation Technology  
Cell and Molecular Biology  
Microbiology  
Biochemistry

## SKILLS

### LANGUAGES

• C/C++ • Python • R

### WEB

• HTML • CSS • Bootstrap

### DATA SCIENCE

• Scikit-learn • Machine Learning

### OTHERS

• Git • Adobe Photoshop

## LINKS

Github:// [pratikgl](#)  
LinkedIn:// [pratikgl](#)  
Codechef:// [lo\\_la](#)  
Codeforces:// [pratik\\_gl](#)  
Website:// [pratikgl.github.io](#)

## PROJECTS

### DIABETES PREDICTION | B.TECH PROJECT

Jan 2020 - May 2020 | Mentor: Dr. Pankaj Yadav  
Github Repo | Report

- Statistical Models for Predicting the risk of Diabetes using Machine Learning techniques and Regression Algorithms
- Elevated the Model Performance by Data Imputation (K-nearest-neighbours) and Recursive Feature Elimination

### SIGNATURE RECOGNITION | COURSE PROJECT

Sept 2019 - Nov 2019 | Mentor: Dr. Rajlaxmi Chouhan  
Github Repo | Report

- A Signature Recognition Model based on Convolutional Neural Network
- Signatures were treated as images and then fed into CNN Model to find the similarities in the Signature Patterns

### THINKATHON 2020 | COURSE PROJECT

Feb 2020 - April 2020 | Genetics & rDNA Technology  
Mentor: Dr. Shankar Manoharan | Report

- Proposed a Hypothetical Approach to Control the Phytoplankton Blooms using Genetic Engineering Techniques

### COVID19 - ISM | SUMMER PROJECT

May 2020 - Ongoing | Mentor: Dr. Pankaj Yadav  
Github Repo | Report | Referred Research Paper

- Entropy based Genomic Analysis of SARS-COV-2 to map the Viral Subtype to the Regional Clusters
- Study was done using Informative Subtype Markers (ISMs) and Hierarchical Clustering and Dendrogram construction was based on Hamming Distances using UPGMA Algorithm

## ACHIEVEMENTS

- Placed under **1%** of 1.05 million JEE 2018 aspirants
- **4-star** badge, **Division 1** Programmer in Codechef
- Ranked **179** in Codechef September Mega Cook Off 2019, Div 2

## POSITIONS OF RESPONSIBILITY

### STUDENT GUIDE | COUNSELLING SERVICE, IITJ

Aug 2020 - May 2020

- Guided and Mentored 7 freshmen in smooth transition into the college life. Organized Orientation Week for 360 students working in a group of 40.

## EXTRACURRICULAR

- Core Member: Quiz Club, Photography and Designing Club, IIT Jodhpur
- Participant, Inter-IIT Cultural Meet 2019, IIT Bombay
- Got 4 entries selected in FRAMED '20, The Annual Art and Photography Exhibition, IIT Jodhpur