

# Pratik Goyal

Pre-Final Year (B.Tech) | Biotechnology | IIT Jodhpur  
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## EDUCATION

### IIT JODHPUR

B.TECH IN BIOTECHNOLOGY  
Expected 2022 | Jodhpur, India  
CGPA: 7.4/10

### 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  
Artificial Intelligence  
Bioinformatics and Computational Biology  
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 • MySQL • Adobe Photoshop

## LINKS

Github:// [pratikgl](#)  
LinkedIn:// [pratikgl](#)  
Codechef:// [lo\\_la](#)  
Codeforces:// [lo\\_la](#)  
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

### 0-1 KNAPSACK | COURSE PROJECT

Sep 2020 - Oct 2020 | Artificial Intelligence  
Mentor: Dr. Yashaswi Verma | Github Repo

- Implemented Genetic Algorithm (Local Search) from scratch (in C++) and solved 0-1 KnapSack problem

### PET-ADOPTION | ML-CHALLENGE

July 2020 - Aug 2020 | Github Repo

- A Machine Learning challenge held on HackerEarth
- Achieved a remarkable accuracy of 89.28588 (online) and secured a rank of 309 among 5060 contestants

### 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
- Rated **1969 (4 Star)** on Codechef
- Ranked **175** in Codechef October Cook-Off 2020, Div 1

## 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