# Jay Prakash

Pre–Final Year(BTech) | Computer Science and Engineering | IIT Jodhpur
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## Education

**IIT Jodhpur**

BTech in Computer Science & Engineering
Expected May 2022 | Jodhpur, India
Current **CGPA: 8.35/10** (till 4th Sem)
            **8.16/10** (till 3rd Sem)

**VMS Sansthan, Pali**

Board: RBSE| Class 12
May 2017 | Pali, India
**Percentage: 96.60 %**

**GVM Sr. Sec. School**

Board: RBSE | Class 10
May 2015 | Pali, India
**Percentage: 94.83%**

## Coursework

Data structure & Algorithm
Object-Oriented Analysis & design
Computer programming
Discrete Mathematics
Software Engineering
Theory of computation
Computer Organisation & Architecture
Probability, Statistics & Random Processes
Linear Algebra and Calculus

## SKILLS

**Programming Languages**

Proficient: C/C++ | Python
Familiar: Java | JavaScript

**Web Technologies**

HTML | CSS | Bootstrap | Django

**Utilities**

Git | Android Studio

**Others**

OpenCV | Scikit | PyTorch

## Programming Profile

- **University rank 1** and **Overall rank 119** among 3 lakh participants at InterviewBit
- **6-star Badge** on HackerRank↗ in Problem Solving Section
- GeeksForGeeks Handle: @prakash3
- Solved LeetCode↗ and CodeChef↗ monthly challenges

## LINKS

- Github:// jpvaishnav
- LinkedIn:// jay-prakash
- InterviewBit:// @jay.prakash

## Projects

### Event Precognition and Prediction | BTech project

Jan 2020- Aug 2020 | **Guide: Dr. Debarati Bhunia Chakraborty** | Github Link↗
- Predicted Real-time event from video to anticipate their detrimental impacts
- Object behavior deciphered from near past using Lucas Kanade Principle
- Used **YOLOv3** for object detection and Computer Vision for frame operations
- Technologies used: OTSU Thresholding, Trajectory estimation, color detection k-means clustering, Object kinematics

### HR Recruitment system | Software Engineering Project

Jan 2020- July 2020 | **Guide: Dr. Suman Kundu** | Github Link↗
- The system encompasses the entire recruitment process of human capital at IITJ
- The project was done in accordance with **SDLC**
- Principles used: SRS documentation, UML, SOLID, Unit testing, Design Patterns

### Vehicle parking management system | OOP project

Aug 2019 - Dec 2019 | **Guide: Dr. Anand Mishra** |Github Link↗
- Automated system articulated on a smooth vehicle parking facility dealing with dynamism of requirement
- Detailed Design implemented in C++ within the framework of the object model
- Applied inheritance, polymorphism, and OCP during the model implementation

### Image Enhancement | Signals & System project

Aug 2019-Dec 2019 | **Guide: Dr. Rajlaxmi Chauhan**
- Image Enhanced through denoising, edge detection, &histogram equalization
- Optimized Discrete Fast Fourier transformation algorithm for efficient results

### Disaster management app

Sep 2018- Oct 2018 | **Self project for Code.Fun.Do (Microsoft)**
- Developed an application on android studio platform to serve in a pre-disaster and post-disaster scenario using Kotlin
- Guiding Do's and Don't during a disaster in a periodic manner through the app

## Awards & Achievements

- **Global rank 473** among 1.3 lakh participants in ProjectEuler+ contest conducted by HackerRank
- Placed among top 0.3 percentile of the applicants in Joint Entrance Exam-2018
- Secured **District Rank 1** in Senior Secondary exam(2017)
- Awarded by "Bharat Vikas Parishad" for excellent performance in the field of education(2010-15)

## Positions of Responsibility

### Festival Chief | Social Fest

Feb 2020 - Present
- Appointed as festival chief of the 1st edition of the social fest at IIT Jodhpur
- Formulated course of actions, fest budget & multifaceted departmentalization

### Assistant Head | Parivartan

Aug 2019 - April 2020
- Managed social service activities in the field of education, healthcare & environment for the greater good of lives at campus and nearby villages

## Extra–Curriculars

- Selected from P-club induction test for Core Member in Programming club
- Vice-Captain, Science Club
- **Interests:** Formal writing, Reading, Cricket