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: 8.45**(Till 2nd TriSem, 3rd Year)

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
Data Communications
Artificial Intelligence

SKILLS

Programming Languages

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

Web Technologies

HTML | CSS | Bootstrap | Django

Utilities

Git | MongoDB | Networking tools

Others

OpenCV | ML-libraries | Socket programming

Programming Profile

- **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

P2P File sharing | Computer Networks Project

Dec 2020- Feb 2021 | **Guide: Dr. Ravi Bhandari |** Github Link↗
- Created Peer-to-peer system for efficient file sharing task
- Enabled multiple peers to share one file simultaneously
- Used socket programming, TCP protocol, and multithreading, IP configuration, and implemented sharing across heterogeneous devices

Flow Free Solver | Artificial Intelligence Project

Sep 2020- Nov 2020 | **Guide: Dr. Yashashwi Verma |** Github Link↗
- Described flow free game problem in CSP framework
- Implemented backtracking, filtering, and ordering algorithms and solved up to N=11 using feasible resources

Cursor Controlling device | Data Communication Project

Sep 2020- Nov 2020 | **Guide: Dr. Ravi Bhandari |** Github Link↗
- Framed cursor alike system using a magnet, Arduino, and magnetometer sensor
- Detected, Communicated, and displayed the motion of magnet to the connected computer system

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

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) and **District merit 5** in Secondary exam (2015)
- Awarded by "Bharat Vikas Parishad" for excellent performance in the field of education(2010-15)

PoR & Extra-Curriculars

- Assistant Head, Parivartan IIT Jodhpur | 2019-20
- Festival Chief, Social Fest 2020, IIT Jodhpur
- Core Member, Programming Club, IIT Jodhpur | 2019
- Vice-Captain, Science Club | 2019-20
- **Interests:** Formal writing, Reading, Cricket