

Nishant Sarraff

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:** 9.11/10 (up to 4th Sem)

Delhi Public School, Bhiwani

Board: CBSE | Class 12
May 2017 | Bhiwani, India
Percentage: 86.60%

Vaish Sr. Sec. School

Board: HBSE | Class 10
May 2015 | Bhiwani, India
Percentage: 93.4%

Coursework

Data structure & Algorithm
Object-Oriented Analysis & design
Computer programming
Discrete Mathematics
Software Engineering
Theory of computation
Computer Organisation & Architecture
Probability, Statistics & Random Processes
Algorithmic Design & Analysis*
Artificial Intelligence*
Data Communication*
*Ongoing Courses

SKILLS

Programming Languages

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

Web Technologies

HTML | CSS | Bootstrap

Others

OpenCV | Scikit | MATLAB | Git

HOBBIES

- Watching Anime
- PC Gaming
- Programming

LINKS

- [Codechef://sarraff](#)
- [Leetcode://aggarwal_sarraff](#)
- [LinkedIn://nishant-sarraff](#)

Projects

Deep Fruit Classification | BTech project

Jan 2020- Aug 2020 | Guide: Dr. Debarati Bhunia Chakraborty

- Customized and trained a Convolutional Neural Network (CNN) architecture to detect and recognize the Fruits with higher accuracy.
- Used **Keras** for creating and training model with higher accuracy
- 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

- 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

IITJ Hospital Management System | OOP project

Aug 2019 - Dec 2019 | Guide: Dr. Anand Mishra [Github Link](#)

- Selected from 5 teams to build software for the health center of IIT Jodhpur.
- Currently building and deploying a React Native backed Hospital Management System considering practical needs in mind, under Dr. Anand Mishra.

X-Ray Crystallography | Signals & System project

Aug 2019-Dec 2019 | Guide: Dr. Rajlaxmi Chauhan

- In a team of 5, created X-Ray Crystallography Estimator model which estimates the molecular structure of an enzyme/protein, given the Fourier transform of the substrate using MATLAB, python + matplotlib

Flood Predictor

Sep 2018- Oct 2018 | Self-project for Code.Fun.Do (Microsoft)

- In a team of 2, created a Flood Predictor ML model which predicts the flood outcome on the basis of previous outcomes and environmental variables.

Awards & Achievements

- Selected for National Talent Search Examination in 8th class
- **Department Rank 1** in Electrical Engineering Department with CGPA 9.4
- Achieved JEE Advanced Rank - 5650 (Selected in top 0.5% all over India) among 1.2 million candidates
- Certified by Coursera to complete the 3-month Machine Learning Course

Positions of Responsibility

IGNUS Head | Cultural Fest

Dec 2019 - March 2020

- Appointed as IGNUS head of the Cultural fest at IIT Jodhpur
- The formulated course of actions, fest budget & multifaceted departmentalization

Captain | Fine Arts Club

Aug 2019 - April 2020

- Coordinated and managed year-round activities & competitions of the club at IIT Jodhpur.
- Organized Fine Arts workshops.

Extra-Curriculars

- **Core Member** | Office of Student Placement (April 2019 - Present)
- **Student Guide** | Counselling Service (July 2019 - May 2020)