

# HARSHITA GUPTA

Junior at CSE IIT Jodhpur

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## EDUCATION

### **IIT JODHPUR**

B.Tech in Computer Science and Engineering

Expected May 2024 | Jodhpur, India

CGPA: 6.88/10 (up to 4th sem)

### **Children's Academy Convent School**

Class 12 | C.B.S.E Board

Grad. Jun 2020 | Alwar, Rajasthan

Percentage: 92.2%

### **St. Anselms Sr. Sec. School**

Class 10 | C.B.S.E Board

Grad. Jun 2018 | Alwar, Rajasthan

Percentage: 93.6%

## SKILLS

### **PROGRAMMING**

Proficient: • C++ • C • Python • Java

Familiar: • JavaScript

### **DEVELOPMENT**

• HTML • CSS • Android Studio

### **FAMILIAR**

• Node.js • MATLAB • Django • MySQL

### **OTHER SKILLS**

• Machine Learning • Cloud Computing  
• Product & Management • Git and Tools

## COURSEWORK

### **UNDERGRADUATE**

Data Structures and Algorithms

Pattern Recognition and Machine Learning

Software Engineering

Discrete Mathematics

Foundations of Quantum Information

Operating Systems

Database System

Computer Architecture

Design and Analysis of Algorithms

Principles of Programming Languages

## EXTRA-CURRICULAR

- 2018: STATE-LEVEL Basketball Player
- 2017: GOVERNOR AWARDEE Bharat Scouts and Guides Rajasthan

## PROJECTS

### **Implementation of Private Cloud with Old HPC servers | [Project](#)**

June 2022 – Present | Mentor: Dr. Suman Kundu

- OpenStack is an open-source cloud computing platform that supports all types of cloud environments. Implementation of Openstack requires to have compatible infrastructure and hardware requirements.
- The aim is to provide an open-source solution to build a private cloud with Old HPC servers.
- Deliverables:
  - Installing OpenStack and creating instances
  - Setting up MAAS and Juju
  - Configure Hardware

### **Decentralized Voting System | SUMMER PROJECT | [Github](#)**

Feb 2022 – June 2022 | Mentor: Dr. Debasis Das

- Blockchain offers a new paradigm for achieving public verifiability in such electronic voting systems, thanks to cryptocurrency's amazing success, and expanding popularity.
- The aim is to provide a blockchain-based system that relies on each participating node to store the data block locally.

### **HEART FAILURE PREDICTION | COURSE PROJECT | [Github](#)**

March 2022 – April 2022 | Mentor: Dr. Richa Singh

- Predict Cardiovascular disorders(CVDs) based on data set through Machine Learning Techniques.
- In-depth research followed by an analytical and quantitative comparison between different Machine Learning Techniques, such as Random forest classifiers, Decision Trees, XGBoost Classifier, LightBGM Classifier, and K-NN Classifiers.

## ROLES AND RESPONSIBILITIES

- 2022-Present: Marketing Head of Prometeo'23
- 2022-Present: Executive of CSE Society
- 2022: Assistant Head of Design & Creativity Team of Varchas'22, IIT Jodhpur
- 2021-2022: Overall Coordinator of Frame-X, IIT Jodhpur

## ACHIEVEMENTS

- 2020: Among top 0.7% of 1.2 million Applicants in JEE (Mains)-2020
- 2020: Secured Rank AIR 5977 in JEE (Advanced) -2020