

# Bhavya Sharma

Pre-final Year | Electrical Engineering | IIT Jodhpur  
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## EDUCATION

### UNDERGRADUATE

IIT JODHPUR

B.TECH | ELECTRICAL ENGINEERING

2024 | Jodhpur, India

CGPA: 7.45/10

### SENIOR SECONDARY SCHOOL

DIVINE CHILD HIGH SCHOOL | CBSE

2020 | Surat, India

PERCENTAGE: 94.80%

### SECONDARY SCHOOL

RYAN INTERNATIONAL SCHOOL | CBSE

2018 | Surat, India

PERCENTAGE: 95.20%

## SKILLS

### LANGUAGES

• Python • C/C++ • Verilog

Familiar:

• SQL • Java

### WEB DEVELOPMENT

• HTML • CSS • Bootstrap

• Javascript

Familiar:

• Flask • Django • NodeJs

### DATA SCIENCE

• Pandas • Numpy • Pytorch

• Scikit Learn

Familiar:

• Tensorflow • Keras

### OTHERS

• Solidworks • Matlab • Git

• OpenCV • Figma

## COURSES

Introduction to Computer Science

Data Structure and algorithms

Pattern Recognition and Machine Learning

Probability, Statistics and Stochastic process

Signals & Systems

Digital Design

Circuit Theory, Physical Electronics

Foundations of Quantum Information

DS-Algos(Udemy)

Web Development(Coursera)

## LINKS

Github: [BhavyaSharma](#)

LinkedIn: [Bhavya Sharma](#)

## EXPERIENCE

### SOFTWARE DEVELOPMENT INTERN | DEEPTHOUGHT

EDUTECH

June 2022- present

- Designing user-friendly and easily understandable UI for the app Adtech
- Building the frontend of features like notifications, blogs etc. on the app

Tech-Stack: **JavaScript, Figma**

### SUMMER RESEARCH ASSIATANT | UNDERSTANDING THE PROPERTIES OF CONDUCTING YARNS

May 2022- present | Mentor: Dr. Ajay Agarwal

- Experimenting and studying the electrical and mechanical properties of conducting yarns with different weaving patterns
- Working on applications using results obtained from the properties of yarn

### INTER IIT TECH MEET 10.0 | IDENTIFICATION OF SOLAR BURSTS

Feb 2022- March 2022 | Github

- Built a stand-alone web-based application to identify and categorize X-ray bursts for ISRO problem statement
- Formed the classification model using statistical model based on the x-ray light curves

Tech-Stack: **Python, Flask, HTML**

## PROJECTS

### MOTION MAGNIFICATION | DESIGN CREDIT PROJECT

July 2021-December 2021 | Mentor: Dr. Rajendra Nagar | Github

- Developed a method of motion magnification that supports larger magnification factors and does not amplify the noise
- Analyzed the signals of local phase over time in different spatial scales and orientations to manipulate the underlying motion

Tech-Stack: **Python, OpenCV**

### HEART FAILURE PREDICTION | | COURSE PROJECT

April 2022- May 2020 | Mentor: Dr. Richa Singh | Github

- Deployed a machine learning classification model using django to predict the risk of heart failure
- Trained the model on different classifiers and deep learning model to increase the accuracy of prediction

Tech-Stack: **Django, HTML, Bootstrap, Pandas, NumPy, Matplotlib**

### BITCOIN PREDICTION | | COURSE PROJECT

April 2022- May 2020 | Mentor: Dr. Richa Singh

- Developed a machine learning classification model to estimate the future valuation of bitcoin
- Used LSTM models and regression models to get better accuracy for the prediction

Tech-Stack: **Python, Pandas, NumPy, Matplotlib**

## POR AND ACHIEVEMENTS

- Represented IIT Jodhpur at **Inter-IIT Tech Meet 10.0 & Secured 8th position** overall among 23 IITs
- International rank: **309**, National Science Olympiad (2017-2018)
- **Joint Secretary** of the dance society of IIT Jodhpur
- Assistant Head, Publicity and Marketing Team (Varchas'2022)