

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

FRAMEWORK

• HTML • CSS • Bootstrap

Familiar:

• Flask • Django • NodeJs • Javascript

DEEP LEARNING

• Pandas • Numpy • Pytorch

Familiar:

• Tensorflow • Keras

OTHERS

• Solidworks • Matlab • OpenCV • Figma

• Team Work • Leadership • Verbal and

Written Communication

COURSES

UNDERGRADUATE

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

MOOC'S

Web App Development

User Interface Personalization

LINKS

Github: [BhavyaSharma](#)

LinkedIn: [Bhavya Sharma](#)

EXPERIENCE

ALGORITHM DEVELOPER | REACH TECHNOLOGIES

August 2022- present

- Identifying good approaches to solve problems in research papers on **computer vision, image processing, OCR**
 - Develop algorithms for pilot projects based on **IoT, machine learning, CNC**
- Tech-Stack: **Pthon, C++, OpenCV, Tensorflow**

SUMMER RESEARCH ASSISTANT | UNDERSTANDING PROPERTIES OF CONDUCTING YARNS

May 2022- July 2022 | Mentor: Dr. Ajay Agarwal

- Experimented on tungsten and blended steel based yarn samples at **Centre of Advanced Scientific Experiments, IITJ**
- Properties obtained were used for possible applications like **heart attack sensor, sensors for underwater workstations**

INTER-IIT TECH MEET | IDENTIFICATION OF SOLAR BURSTS

Feb 2022- March 2022 | Github

- Worked on the algorithm used to identify and categorize X-ray bursts
- 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 algorithm 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**

FACEBOOK MESSENGER CLONE | SELF PROJECT

April 2022- May 2022 | Github

- Created a full Realtime Chat Application with **Social Authentication** and dedicated **chat APIs/sockets**
- Features like **online statuses, image support, sound notifications, the ability to create multiple rooms** were added

Tech-Stack: **React JS, Firebase, HTML, CSS**

POSITION OF RESPONSIBILITY

- Joint Secretary** of the dance society of IIT Jodhpur
- Assistant Head, Publicity and Marketing Team (Varchas'2022)
- Assistant Head, Informal Events (Spandan'2022)

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)**