

# Raghav Ranjan

raghavranjan005.github.io  
 ranjan.1@iitj.ac.in | +91-9931228832

## EDUCATION

### IIT JODHPUR

SOPHOMORE YEAR BTECH IN  
 ELECTRICAL ENGINEERING  
 Expected 2022 | Jodhpur, India  
 CGPA 7.01/10 (upto 3rd sem)

### B.D.B.K.S INTER COLLEGE, FBG

CLASS 12 | BSEB  
 2017 | Bihar  
 Percentage: 78.8%

### S.R.S.V.M, FBG

CLASS 10 | CBSE  
 2015 | Bihar  
 CGPA: 10

## LINKS

Github:// [raghavranjan005](#)  
 LinkedIn:// [raghav-ranjan-827837190](#)  
 Codechef:// [raghav\\_\\_005](#)

## COURSEWORK

### UNDERGRADUATE

Computer Programming  
 Linear Algebra and Calculus  
 Basic Electronics Engineering  
 Signals and Systems  
 Circuit Theory  
 Physics of Semiconductors and Devices  
 Digital Logic and Design  
 Probability, Statistics and Random  
 Processes

## SKILLS

### LANGUAGES

• C • C++ ( *proficient* ) • Python

### TECHNOLOGIES

• NodeJS • Django • MATLAB  
 • MongoDB • HTML/CSS  
 • Keras

### DATA SCIENCE

• CNN • Tensorflow

### OTHERS

• Adobe Premiere Pro • Adobe After  
 Effects

## PROJECTS

### SCIENTIFIC CHART READER | B.TECH PROJECT

Mentor: Dr Anand Mishra | Open sourced, [Github](#) 

- A **Django** based Web Application to extract data in tabular as well as in Latex form from an image of a Bar graph
- Used various **CNN** architectures such as **VGG16**, **VGG19**, **InceptionResNetV2** for classification of different types of Bar graphs and uses **Pytesseract** for detection and extraction of texts
- Designed and implemented a set of algorithm aided by the image processing libraries of **OpenCV** to obtain the height of the bars

### TO DO LIST | STACKHACK 1.0 HACKEREARTH HACKATHON 2020

Deployed at, [Todolist](#)  | Open sourced, [Github](#) 

- A Full stack Web Application where one can sign up and manage his task. One can add tags like priority, date, status and update or delete the task
- Technologies used: **NodeJS**, **MongoDB**

### IMAGE TO CSV CONVERTER | SELF PROJECT

Open sourced, [Github](#) 

- It can be used to extract data from tabular data image and convert it to CSV file.
- Uses **Pytesseract**, **OpenCV** and other image processing techniques to extract data

### SIGN LANGUAGE | SELF PROJECT

Open sourced, [Github](#)

- It is to detect different hand gestures and Output Text or sound accordingly
- Uses **Flex sensors** combinations to detect gestures

## ACHIEVEMENTS

- **4-star** badge, **Division 1** Programmer in Codechef
- Represented IITJ in Smart India Hackathon 2020.

## POSITION OF RESPONSIBILITIES

### JOINT SECRETARY | SCIENCE AND TECHNOLOGY SOCIETY, IITJ

Aug 2019 - May 2020

- Managing and Executing the daily activities of Student Science and Technology Society, IITJ and ensuring its smooth workflow
- Organised PROMETEO 2020 - IITJ's Annual Inter-College Technical Fest

### PR AND PUBLICITY MEDIA HEAD | PROMETEO 2020

Jan 2020

- Head of Public Relation and Publicity and Media Team of PROMETEO'20 - IITJ's Annual Inter-College Technical Fest

## EXTRA-CURRICULAR

- Innovation Student Coordinator, IIC IIT Jodhpur
- Core Member - FRAME-X The video editing and Film making club of IIT Jodhpur