

Rajat Bhardwaj

Pre-Final Year | Electrical Engineering | IIT Jodhpur
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EDUCATION

IIT JODHPUR

B.TECH IN ELECTRICAL
ENGINEERING

Expected 2022 | Jodhpur, India
cum CGPA: 8.45/10 (Till 4th sem)

V.M. PUBLIC SCHOOL

CBSE CLASS 12

May 2017 | Hanumangarh, India
Percentage: 92.2%

BLOSSOM ACADEMY

May 2015 | Suratgarh, India
CGPA: 10.0

SKILLS

Programming Languages

• C++(proficient) • Python • HTML
• CSS • Javascript

Utility

• Git • Atom • VSCode

Web Frameworks (familiar):

• ReactJS • Express.js with Node.js

Database:

• MongoDB, SQL

LINKS

Codechef:// @ra_jatt

Github:// rajatbhardwaj007

LinkedIn:// rajat-bhardwaj

COURSEWORK

MOOC'S

Data Structures And Algorithms
(University of California, San Diego)

Python 3 Programming

(University of Michigan)

Object Oriented Programming

Concepts(Self-taught)

Full stack Web-Development Course
(Udemy)

RELEVANT COURSES

Computer Programming.

Linear Algebra And Calculus.

Probability, Statistics and
Random Process.

Complex Analysis and
Differential Equations.

Signals and Systems.

PROJECTS

ONLINE HANDWRITING RECOGNITION | A SAMSUNG PROJECT

Jan 2020-April 2020 | Github | GUIDE- DR. GAURAV HARIT

- Used **Element Tree** and **Pandas** library in Python for extracting coordinates.
- Used **Bezier Curve fitting** method to plot strokes approximately using **numpy**, **matplotlib**, **scipy** libraries in Python and enhanced efficiency for Recognition.
- Successfully implemented **Research Paper** and method leads to up to 10x faster recognition with error reduction up to 20%-40% for most languages.

PATH-FINDING VISUALISER FOR DIJKSTRA'S ALGORITHM

April 2020-May 2020 | Website | Github | SELF-PROJECT

- Built **ReactJS** application for visualizing **Dijkstra's** minimum path finding algorithm adapted for a 2D grid.
- Implemented a dynamic visualization system for algorithm **animation** using **Javascript** and styles using **CSS**.

VEHICLE NUMBER PLATE RECOGNITION

Aug 2019-Nov 2019 | Github | GUIDE- DR. RAJLAXMI CHAUHAN

- Extracted Characters from a given image of number plate using **MATLAB**.
- Completed project for Signals and Systems course with a team of 5 members.

FRIEND'S CHATBOX | WEBAPP USING NODE.JS AND SOCKET.IO

April 2020-May 2020 | Website | Github | UDEMY COURSE PROJECT

- Created full Realtime Chat Web Application using React.js on Frontend and with **Node.js + socket.io** web socket library on the back end.

ACHIEVEMENTS

- Rated **4-star (Max. Rating-1965)** on Codechef | @ra_jatt.
- Ranked **272** on Codechef June Long Challenge 2020 div. 1 out of more than 20000+ participants.
- Rank-**2525th** globally in Google Kickstart Round B 2020 out of 10000+ coders.
- JEE Advanced 2018 AIR:**5294** among the shortlisted 2 lakh (approx.) students.

POSITION OF RESPONSIBILITIES

STUDENT REPRESENTATIVE

July 2019-July 2020 |

- Gained **Leadership** Qualities through taking positive decisions and handling diverse interests of students.

CORE-MEMBER | CAREER DEVELOPMENT CELL

July 2019-At Present

- Expanding opportunities for students for interns and jobs.

EXTRA CURRICULARS

- **Core Member**- Literature Club
- Participated in **Hindi Writing Competition** in **Cult-Meet** 2019-20.