

RAJARSHI BANERJEE

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EDUCATION

University of Calcutta (2018-2022) Kolkata, India

B.Tech in Optics and Optoelectronics Engineering

CGPA – **7.81**

Higher Secondary – Aditya Academy (2015-2017) Kolkata, India

Percentage Scored – **78%** (Science)

PROJECTS

Final Year Project (Sept 2021 – June 2022)

Worked on *Classification of Retinal Fundus Images for Diabetic Retinopathy using Deep Learning* at **Indian Statistical Institute Kolkata (ISI Kolkata)**.

Bachelor's Mini Project (Jan 2021 – Feb 2021) [Link](#)

Demonstrated the transmission of data through LASER using two Arduino Nanos as a transmitter and a receiver.

Personal Projects

Sorting Algorithm Visualizer (github) (demo)	GUI, Tkinter, Python
MP3 music player (github)	GUI, Python, SQLite3 (database), OOPs concept, Tkinter
Discord Bot (demo)	GUI, Python, OOPs concept, Reddit API, GitHub API, hosted on Heroku
Portfolio Website (github)	HTML5, CSS3, Javascript, MDBootstrap
Data Structure Library (github)	Python (Implemented linkedlist, trees in python)
Trick or Treat Game (github) (demo)	Python, Pygame

INTERNSHIPS

Centre for Development of Advance Computing (C-DAC) (Nov 2021 –Present)

Research Intern

Worked on controlling mouse functionalities and keyboard shortcuts with hand gestures.

Currently leading a team of four building an application to make air writing possible using tech stack like **OpenCV**, **Mediapipe**, and **Pytorch**.

GeeksforGeeks (Sept 2021 – Feb 2022) [Articles link](#)

Technical Content Writer

Wrote and published various articles on *python*, *image processing*, **OpenCV** and *Mathematics*.

SKILLS

Python	Image Processing	
OOPs	NumPy	C++
OpenCV	Data Structures	
Git & GitHub		MS Office
Deep Learning		PyTorch
Algorithms	Neural Networks	

COURSES AND CERTIFICATES

Data Structure with Python By Sandeep Jain from *GeeksforGeeks* [certificate](#)

Elements of AI from *University of Helsinki* [certificate](#)

Computer Vision with Python from *Udemy* [certificate](#)

Python Bootcamp 2021 Build 15 Working Applications and Games from *Udemy* [certificate](#)

Intro to Deep Learning from *Kaggle* [certificate](#)

Computer Vision from *Kaggle* [certificate](#)

Winter School of Deep Learning from *ISI Kolkata* [certificate](#)

ACHIEVEMENTS

3 ☆ Coder at Codechef [profile](#)

Solved 200+ problems across all coding platforms (codechef, geeksforgeeks, hackerrank)

Participated in **Hacktoberfest 2021** contributed to **open-source** and made 8 valid pull requests