

Rajarshi Banerjee

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EDUCATION

- **University of Calcutta (2018-2022)** Kolkata, India
B.Tech in Optics and Optoelectronics Engineering
Percentage Scored – **75.11%**
- **Higher Secondary – Aditya Academy (2017)** Barasat, West Bengal
Stream Science
Percentage Scored – **78%**
- **Secondary – Aditya Academy (2015)** Barasat, West Bengal
CGPA – **7.4**

PROJECTS

- **Bachelor's Thesis** (Sept 2021 – Current)
Working on *detection and classification of diabetic retinopathy(DR)* using various image processing techniques and deep learning under the supervision of *Dr. Uma Sankar* 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 under the supervision of *Dr. Kanik Palodhi* at **University of Calcutta**
- **Personal Projects**
 - **Sorting Algorithm Visualizer** [GitHub](#) [YouTube](#)
Created a **GUI** application using **Tkinter** Module in **Python** to visualize *sorting algorithms*
 - **Advance Python Data Structure Library** [GitHub](#) [Package link](#)
Implemented advanced *data structures* (from *linked list* to *trees*) in **python** and published the distributable package library on pypi.org
 - **Trick or Treat** [GitHub](#) [YouTube](#)
Created a *game* in **python** using the **pygame** module
 - **Discord Bot** [YouTube](#)
Created a discord bot in **python** using the **discord API** for python using **OOPs** concepts, integrated it with a **free dictionary API**, **Reddit API** to fetch memes or latest posts, **GitHub API** to collect stats of the user using the bot. Users can also play **tic-tac-toe game** with the *bot*. Hosted it on Heroku. Improved the bot based on the *feedback given by people who used it*.
 - **Mp3 Music Player** [GitHub](#)
Created a GUI application in **python** using the **Tkinter** module that can play Mp3 songs. Used **sqlite3** as a database so that users can open files to play and save songs as favourites.

INTERNSHIPS

- **GeeksforGeeks** (Sept 2021 – Present) [Articles link](#)
Technical Content Writer
Wrote and published various articles on *python, image processing, OpenCV and Mathematics*.

SKILLS

Python

Image Processing

OpenCV

Data Structures

Deep Learning

Object Oriented Programming

C++

Algorithms

Git & GitHub

MS Office

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](#)

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
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