

RAJARSHI BANERJEE

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EDUCATION

University of Calcutta | Kolkata, India (2018-2022)

Bachelor of Technology in Optics and Optoelectronics Engineering | CGPA – 8.0/10.0

Higher Secondary – Aditya Academy (C.B.S.E) | Barasat, India (2015-2017)

Stream – Science | Percentage – 78%

EXPERIENCE

Research Intern - Centre for Development of Advance Computing (C-DAC) (June 2022 – Dec 2022)

Worked on controlling mouse functionalities and keyboard shortcuts with hand gestures using [OpenCV](#), and [mediapipe](#). ([github](#))

Worked as a team lead and built a computer vision application to convert hand scribbled words (written using hand gestures) to computer readable text format, using [OpenCV](#), [Mediapipe](#), [easyocr](#) and [PyTorch](#). ([github](#)) ([medium blog](#))

Worked with a team on a No-Code **AutoML** framework in python, **AutoNN**, which provides little to no-code model training tools for classification or regression tasks. ([github](#)) ([website](#))

Project Intern - Indian Statistical Institute (ISI Kolkata) (Sept 2021 – Jun 2022)

Worked on my final year B.Tech project, *Classification of Retinal Fundus Images for Diabetic Retinopathy using Deep Learning*. Used [PyTorch](#) and SOTA EfficientNet architecture to solve the problem. Achieved **84.91% accuracy** using **CNN** model on Messidor dataset. ([github](#))

GeeksforGeeks (Sept 2021 – Feb 2022) | Technical Content Writer

Wrote and published various articles on *python, image processing, OpenCV and Mathematics*. [Articles link](#)

SKILLS

| [Python](#) | [OOPs](#) | [NumPy](#) | [PyTorch](#) | [Deep Learning](#) | [Data Structures](#) | [Algorithms](#) | [Git & GitHub](#) | [Neural Networks](#) | [Convolutional Neural Networks](#) | [MS Office](#) | [Pandas](#) |

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).

Personal Projects

[PyTorch Model Summary](#) ([github](#)) | [PyTorch, Python](#) | An open-source package that prints summary of a DL model like [keras](#).

[Algorithm visualizer](#) ([github](#)) | [Python, Tkinter](#) | A GUI application to visualize various sorting algorithms written in python.

[SnakeAI](#) ([github](#)) | [Pygame, Pytorch](#) | Made AI learn to play the game snake using neural network and [genetic algorithm](#).

[Data-Structure-Library](#) ([github](#)) | [Python, OOPs, Data Structures](#) | An open-source library of data structures like linked lists, stacks queues, doubly linked list etc. all implemented in python

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](#)

Intro to Deep Learning from *Kaggle*

[certificate](#)

Computer Vision from *Kaggle*

[certificate](#)

Winter School of Deep Learning from *ISI Kolkata*

[certificate](#)

HOBBIES

Creating YouTube videos on Math, Deep learning, etc. My attempt to document what I find interesting [[Link](#)]
