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

Primary: **Python | OOPs | NumPy | PyTorch | Deep Learning | Data Structures | Algorithms | Git & GitHub | Neural Networks | Convolutional Neural Networks | Pandas | OpenCV**

Secondary: **JavaScript | HTML | CSS | React | MySQL**

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, Machine Learning and python. [Link]