Avraneel Pal

Computer Science and Engineering, Jadavpur University



avraneelpal22@gmail.com

9836489177

github.com/avraneel



linkedin.com/in/avraneel-pal



Education

Jadavpur University

B.E. in Computer Science and Engineering Linear Average of GPA: 8.3 2020-Present

Adamas International School

Indian School Certificate (ISC) 2018-2020

Percentage: 94.5%

Adamas International School

Indian Certficate of Secondary Education (ICSE) Percentage:: 96.8%

Experience

Airbus Group, India

Simulations and Physical Systems Project Developer

06/2023-08/2023

- Gained insight on various Navigation and Communication Systems used during a flight like MCDU machines.
- · Worked on a live project that plots NOTAM areas in an interactive canvas that also gives corresponding trajectory details on clicking the canvas using Python.

Indian Statistical Institute, Kolkata Research Intern

06/2022-07/2022

- Gained insight into how various Deep Learning Algorithms and Image Processing Techniques work.
- Worked on the Project 'Analysis and Implementation of Deep Clustering'.
- Applied the following skills: PyTorch and OpenCV.

Achievements

- Won the Jagadish Bose National Science Talent Search Junior Scholarship Award. 12/2018
- · Won the Atmadeep Young Scholars Scholarship.

2015

Skills

- Java
- Node.js
- C++
- C
- PyTorch
- OpenCV

- Express.js
- Javascript
- Bash
- **Pandas**
- Socket.IO
- MongoDB

Projects

NOTAM Area Simulator

06/2023-08/2023

This simulator plots NOTAM areas (or, No Fly Zones) given the details on an interactive canvas using matplotlib. The user can also click on the canvas to plot the points of a custom trajectory and the prgram will correspondingly store the details of the trajectory.

Multi Client Chat Application

01/2023-03/2023

A multi-client chat application using Socket.IO and Express.js where users can join a common room to send text and image data to each other. Users who sign up have their data stored in a MongoDB database. Images from one user are uploaded to cloudinary and then sent to the other users.

Analysis and Implementation of Deep Clustering

06/2022-07/2022

(Link to paper)

The goal of this project was to propose a modified target class membership distribution function for the Deep Embedded Clustering technique by implementing and analyzing the paper titled "Unsupervised Deep Embedding for Clustering Analysis." This involved implementing an Autoencoder using PyTorch.

Certificates

Introduction to Basic Game Development Using Scratch 04/2022

Issued by Coursera for the completion of the course 'Introduction to Basic Game Development Using Scratch.'

Algorithmic Toolbox

09/2021

Issued by Coursera for the completion of the course 'Algorithmic Toolbox.'