ARYAN RAJ SAXENA

Student

I am driven by the challenge of finding solutions to complex problems and am constantly seeking to broaden my knowledge and ability to tackle them. I am comfortable working independently as well as in a team and am able to adapt to new situations and challenges quickly.

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github.com/AryanRajSaxena

EDUCATION

Bachelors of Technology
Birla Institute of Technology, Mesra

11/2021 - Present

Courses

- Biotechnology (3rd year)
  (Percentage - 80.2)

Secondary Education
St. Anselm's North City School, Jaipur

07/2008 - 04/2020

Percentage

- Class 12 - 80.8 %
- Class 10 - 88.6 %

PERSONAL PROJECTS

Rice leaf diagnosis (01/2023 - 08/2023)

- Objective - To develop a device which can take image of a rice leaf at different frequencies and predict whether the plant will be healthy or unhealthy in future so that the quantity of pesticides used can be optimized.
- Skills Used - **Deep learning**, **CNN**, **Python**, **Pandas**, **Keras**.
- Responsibility - I had to make a **deep learning CNN model** which can make the prediction.
- AryanRajSaxena/Leaf_disease: Deep learning model for Leaf diseases (github.com)

Image Enhancer (02/2023 - 03/2023)

- Objective - To create a Machine Learning model which can enhance an image.
- Skills - **Machine Learning, OpenCV.**
- Responsibility - To create a **machine learning** model which can enhance a grayscale image. Model is trained on RBG values of the image pixels.
- projects/grayscale_Image_Enhancer at main · AryanRajSaxena/projects (github.com)

TLC Plate analysis (03/2023 - 04/2023)

- Objective - To determine the relative color intensity after TLC plate is treated with enzyme.
- Skills - **Python**, **Algorithm**, **Matplotlib**.
- Responsibility - I had created an **algorithm** which is used to determine the relative color intensity and **plot the graph** for the same using the image of the TLC plate after it is treated with the enzyme.
- TLC_Plate/ at master · AryanRajSaxena/TLC_Plate (github.com)

Descriptor based prediction of PKM2 modulator's bioactivity using Machine Learning (09/2023 - Present)

- Objective - To distinguish between an activator and inhibitor using **Machine Learning.**
- Skills - **Python, Data Analysis, Machine Learning.**
- Responsibility - I have to create a **Machine Learning** model which can predict whether a compound is an **activator or inhibitor** using its properties (**PaDEL** is used). After its type is identified another ML model is used to **predict its bioactivity**.

SKILLS

Data Science | DVC | CI/CD | Docker | Deep Learning | TensorFlow | Machine Learning | Data Analysis | Python | OOP | Git | Github | API handling | Genomics | Bioinformatics | Video Editing

ACHIEVEMENTS

IITJEE

***All India Rank**- Top 3 percentile*

Internal Kavach Hackathon - 2nd runner up (04/2023)

*My team had to pitch an idea for **women safety android application** and provide a prototype for the same.*

Bot building - 3rd rank worldwide (03/2023)

*I had to create an **algorithm** so as to minimize the number of steps of the bot for the game Bot saves princess-2(**HackerRank**).*

ORGANIZATIONS

LEO Club (06/2023 - Present)

***Video Head** - I am responsible for managing the video team of the club and creating videos for it.*

BIOTS Club (05/2023 - Present)

***Technical Coordinator** - Working on developing a website for the Club and also managing the technical team of the club.*

CERTIFICATES

Python (07/2023)
https://tinyurl.com/5d6wr6dn

Artificial Intelligence (07/2022 - 09/2020)
https://tinyurl.com/aiaryan

Password Cracking (07/2022)
https://tinyurl.com/aryanpass