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)

Android Application (02/2023 - 07/2023)

- Objective To create an android application which can be used for diagnostic purposes.
- Skills Full Stack Android Development, Machine Learning, JAVA, Android Studios, Firebase, API handling.
- Responsibility To create a machine learning model to predict the
 disease along with its probability by taking symptoms as input, to
 develop the android application (backend and frontend) using JAVA in
 android studios, maintaining database using Firebase, use APIs to
 fetch information.
- AryanRajSaxena/Med_assist (github.com)

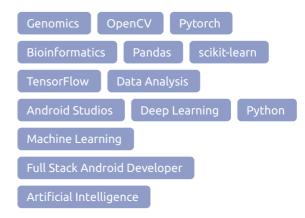
TLC Plate analysis (03/2023 - 04/2023)

- 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 · ArvanRaiSaxena/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



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