

# ARITRA SAHA

Kolkata, West Bengal

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## Education

### Jadavpur University

Bachelor of Technology in Electronics and Telecommunication (CGPA of 8.80)

June 2020 - June 2024

West Bengal, India

### Welland Gouldsmith School

ISC : 90.2% ICSE : 94.8%

## Experience

### Github Link

- \* Developed an **optimal Recommendation Model** aimed at advising the farmers on **optimal crop choices** based on specific soil profiles.
- \* Used **Supervised as well as Unsupervised** ML models to find out **F1 score, Confusion Matrix, Precison and Accuracy** of each of the **22 crop varieties** which were above **90%**.
- \* Produced **4-5 visualization aids** showcasing the performance of different **feature extraction models**, using libraries such as **PyTorch, Seaborn and Plotly**
- \* Using **Keras, Tensorflow**, attained **95% accuracy rate** while recommending crops via **Deep Neural Network**.

## Projects

**FinView** | *NodeJS, ReactJS, ReChartsAPI, MongoDB, Express*

### Github Link

- \* A financial website utilizing **ReactRechartsAPI** that includes **10 graphs and charts** to compare the various parameters of the dataset's characteristics and track **financial health**.
- \* Used **Material UI primarily** for front-end components, **TypeScript** for programming, **Vite** for application structure, **Redux Toolkit** for state management.
- \* For backend, utilized **Node.js with Express.js, MongoDB** as database, and **regression-js** for linear prediction of the revenue for the next financial year.

### Health Monitor

### Github Link

- Designed a **predictive model** that would cater to patients of **varying age groups** taking into consideration health parameters like **heart rate, pulse, spo2, temperature, body gait**. Data collected via Raspberry Pi hardware platform will primarily be using **LoRA and 5G for data transmission in rural areas**.
- Implemented **4 supervised learning algorithms** namely **KNN, DT, SVM, Gaussian NB**.
- Utilized **One Hot Encoding technique** as the dataset had strings/characters in it.
- Data visualisation using the **Matplotlib and Plotly** libraries were used to compare each of the learning algorithms, with the top giving an accuracy of **98%**, and more than **6 accuracy metric parameters** were established.

## Achievements and Certificates

- Secured a position **among the top 5 teams** in a Hackathon conducted by SEBI on the topic of **Finance**
- Python Certificate from Kaggle. [Certificate Link](#)
- Certificate on **Artificial Intelligence and Machine Learning** [Certificate Link](#)

## Profile Links

- [GitHub](#)
- [GFG Profile](#)

## Technical Skills

**Languages:** Java, SQL,, Python, HTML/CSS, Typescript

**Technologies/Frameworks/Libraries:** DBMS, OOPS, ReactJS, TailwindCSS, MongoDB, Node.JS