SOMENATH CHOUDHURY

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Skills

Java | Python | JavaScript | ExpressJS | FastAPI | MongoDB | React | NextJS | Numpy | Pandas | Matplotlib | Seaborn | Scikit-learn | TensorFlow | Docker | Git

Education

Lovely Professional University, India	**2020 - 2024**

- Bachelor of Technology in Computer Science and Engineering | CGPA: **7.15**

Bardhaman Sri Ramkrishna Saradapith Uchcha Vidyalaya, India	**2017 - 2019**

- *WBCHSE (Class XII),*

St Paul's Academy, India	**2012 - 2017**

- *ICSE (Class X)*

Projects

Tomato Leaf Disease Classification Ten Classes ⌗	**May'24**

A web application for detecting and classifying tomato leaf diseases using deep learning models.

- Created 7 deep learning models and used majority voting for the final disease prediction.
- React is used for user authentication, image uploads, displaying classification results, and viewing a history of past classifications and tailwindCSS is used for designing the app.
- FastAPI is used for sending image from frontend to all the deep learning models for prediction, with MongoDB for data storage and Node.js/Express for server-side logic and API routing.

Student Success Failure Detector ⌗	**April'23**

A project to identify students who are at risk of dropout in future from academics.

- Implemented RandomForestClassifier, Decision Tree and SVM for accurate prediction.
- The frontend of this app is created with the help of React and tailwindCSS where authorized user student's academic details and gets predicted result accordingly.
- SVM (Support Vector Machine) is utilized for real time prediction on the input coming from frontend, FastAPI is used to connect SVM with the frontend and ExpressJS is used for storing user and prediction result in database and handle server-side user authentication.

My Finance Manager ⌗	**Feb'23**

A finance management application to track and manage personal finances efficiently.

- Created a user-friendly interface with React.js for easy tracking of savings, investments and expenditure.
- Built a backend with Express to securely handle user's financial data and store it in MongoDB.

Image Text Extractor ⌗	**Feb'23**

A web app that extracts text from images uploaded by the user.

- NextJS, daisyUI and tailwindCSS is used to develop the frontend of the webapp.
- The backend is implemented with FastAPI and handles text extraction from images using the pytesseract Python library.

Achievements

Rank 5 Devfolio Live Code 2.0 Hackathon ⊕	**Sept'23**

- Achieved Rank 5 and also became a Pool Prize Winner out of 100 teams in Devfolio Live the Code 2.0 hackathon.

Postman API Fundamentals Student Expert ⊕	**May'22**

- Received this batch for successfully testing API using Postman Platform.

Certifications

Complete TensorFlow 2 and Keras Deep Learning Bootcamp ⊕	**Jan'21**

- A complete course on TensorFlow designed by Jose Portilla.
- Learned how to implement neural networks, work with state of the art models and integrate models with webapp.

NextJS Authentication System, Learn NextJS 13 from Scratch ⊕	**June'23**

- An end-to-end course for creating full stack websites with NextJS by Satyaprakash Reddy.
- Learned how to a full-fledged website with the help of NextJS using client side and server-side components.

Nodejs API Project: Build a Blog Project API ⊕	**Feb'23**

- A backend course on creating Blog API project by Masynctech Coding School.
- Learned how to create a complete API for a blog application using ExpressJS as backend framework, MongoDB as database and Cloudinary for image storage.