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Divyanshu Chauhan

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Technologies and Languages

- **Languages:** JavaScript, TypeScript, Python
- **Frameworks:** Django, React.js, Next.js, Express.js
- **Databases:** MySQL, MongoDB
- **Frontend:** HTML, CSS
- **Backend:** Node.js, Express.js
- **Cloud Services:** Amazon Web Services (AWS)
- **Other:** Data Structures, Algorithms, Git
- **Achievements:** Hackerrank 5-Star in C++ and Java

Projects

**Artificial Intelligence and
Machine Learning**

Symphonic AI & ML Based Orchestra
Nov 2022 – Feb 2023

- To develop virtual ML based orchestra that uses computer vision to detect human body posture and create music in real time.
- Using only your web browser and webcam, Symphonic AI enables you to direct a virtual orchestra.
- It maps out your movements through your webcam using Pose Net, **a machine learning library that works in the browser.**
- As one conducts, an algorithm uses hundreds of tiny audio files from live-recorded instruments to play along with the score.

Crop Doctor
[Crop Disease Detection using Machine Learning]

Nov 23 - May 24

- Developing web application to create a reliable and accurate method for identifying crop disease early using deep learning techniques.
- Crop-Doctor is a Progressive Web APP (PWA) designed for automated plant disease detection and proposal of method for the prevention and cure of the disease.
- This app will help farmers to detect the diseases and how can they overcome it. It will also generate a detail report which will contain the disease names in number of species.
- If required, they can also verify it by the government authorities who will verify the report generated and will help with the input if required.
- The collected data will help our system to predict the diseases in more accurate way due to self-learning mechanism. The system will be easy to use with some basics functionalities which will make it user friendly for farmers.

Web Development

NGO-Event
April 23 – July 23

- Ngo Event is a web application where the client can make and organize the events of his/her NGO.
- Use of **MongoDB** for Database Structure.

GUA
[Graphical User Authentication]
Aug 23 – Sep 23

- Graphical User Authentication (GUA) System is an authentication system that works by having the user select from images, in a specific order, presented in a graphical user interface (GUI).
- Using Django for simplicity, flexibility, reliability, and scalability.
- Token-based authentication includes key cards, bank cards, smart cards, etc.
- Knowledge-based authentication includes text-based authentication and picture-based authentication.
- Biometric authentication includes fingerprints authentication, iris scan and facial recognition.

Satkartar Immigration Website
March 20 – April 21

- Developed a Front & Back-end website.
- Featuring the user admission in the Immigration school and providing the features and information on anything of the field.

Education

- **B.Tech. (Bachelor of Technology) in Computer Science (specialization in AI&ML),** Vellore Institute of Technology, India.   **2021–2025**

Internship

- **Teachnook:** A 60 day training for front-end development as an intern in Teachnook.   **2023–2023**

Certifications

- **January 2024 – April 2024**

  Elite Certificate in Privacy and Security in Online Social Media Course, NPTEL.

- **Nov 2023 – March 2024**

  Online Course Completion and Certification in Java SE11 to Oracle's software development projects, gaining hands-on experience in Java application development and software engineering practices.

- **February 2024 – March 2024**

  Online Course in Facial Expression Recognition with PyTorch, Coursera Project Networks.

- **January 2023 – March 2023**

  Online Course in Web Development, Teachnook.

- **October 2022 – December 2022**

  Online Course in HTML, CSS, JavaScript for Web Developers, John Hopkins University through Coursera.

- **April 2022 – June 2022**

  Online Course in Mastering in Python, Infosys Springboard.

- **January 2022 – March2022**

  Online Course in Python 101 for Data Science, Cognitive Class by IBM.