Dhruv Sood

Undergraduate Student

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A self-motivated and energetic tech enthusiast who loves to explore various technologies, create something new and different, and tries to solve real world problems using his technical and analytical skills. Aiming to be a part of an innovative work environment where I can use my technical and interpersonal skills to accomplish organizational goals.

EDUCATION

Vellore Institute of Technology, Vellore, TN   **8.75/10.0 CGPA**
B.Tech. in Information Technology   July 2019 - May 2023

- OOPS
- Database management System
- Information Security Management
- Software Testing
- Software project Management
- Human Resource Management

EXPERIENCE

Ernst and young   **2022**
Internship

- Built a mobile application using Flutter, implementing features such as third-party API integration and cross-platform compatibility.
- Worked on computer vision and machine learning models for tasks such as image recognition and object detection, using popular frameworks like TensorFlow.
- Collaborated with team members and stakeholders to ensure project success, including regular stand-up meetings and effective communication with supervisors, designers, and product managers.

Coding Ninjas   **2021**
Internship

- Key responsibilities during the internship were:
    - Taking doubt session
    - Debugging codes
    - Helping students in their assignments & various projects

RESEARCH WORK

1. **A Performance Enhancement of Deepfake Video Detection through the use of a Hybrid CNN Deep Learning Model**
   Publication: Feb, 2023; International Journal of Electrical and Computer Engineering Systems
   - This paper presents a system that utilizes a hybrid CNN, comprised of InceptionResnet v2 and Xception, to extract frame-level features for deep fake detection. The system was evaluated using the DFDC deep fake detection challenge dataset on Kaggle, and optimized to increase accuracy and decrease training time. The system achieved high precision, recall, f1-score, and support, with scores of 0.985, 0.96, 0.98, and 0.968, respectively.

2. **Image Steganography Using CNN**

   Publication: Feb, 2022; International Research Journal of Engineering and Technology, Volume 9 Issue 2

   - Designed a novel technique to hide an image inside another image more efficiently.

MAJOR PROJECTS

- Deepfake Detection model [2021]
- Sign language recognition [2021]
- Privacy Preserving Graphs – Social Information Privacy Disclosure and Filtering [2021]
- Rozgaar - Tried to ideate over a startup idea and created a worker centric based website which aimed to tie up with other workers and private and government organizations and create a platform for listing and applying for jobs as well as some skill generating platform. [2020]
- Real estate management system – It was a DATABASE Management System, which was made using Oracle Database. In this project there were 8 main Entities, creating a real world like scenario, of how an Online Real Estate Management System would work. [2019]

SKILLS

- Python
- Java
- SQL

EXTRA-CURRICULAR ACTIVITIES

- Gold Level NASSCOM certificate in Cloud Computing [August 2021]
- Gold Level NASSCOM certificate in Artificial Intelligence [August 2021]
- Member of VentureOps [2019-2021]
- Volunteer in CSR NGO [2019-2020]
- Swimmer and Gym-goer
- Enjoys music and playing guitar