HARSH KUMAR JAIN

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EDUCATION

SRMIST **Chennai, India**
B.Tech CSE - AI/ML *September 2020– Present*
- **CGPA:** 9.10
- **Relevant Courses:** Operating Systems, Computer Networks, Data Structures and Algorithms, DBMS, Computer Vision.

SKILLS & INTERESTS

Programming Languages: Python, C++, C
Libraries: Pandas, NumPy, Matplotlib, Scikit-Learn, Tensorflow, PyTorch, Keras
Data Science: Data cleaning, Data visualization, Hypothesis Testing, Regression, Classification
Other Tools: Flask, Excel, Git, MySQL, Postman, Heroku

PROFESSIONAL EXPERIENCE

ViHaVe.ai **Remote**
Computer Vision Intern *February 2023 – April 2023*
- Created a computer vision model to detect the markings on a chemical cylinder and built an algorithm to find the midpoint of the detected markings
- Responsible for maintaining the backend of projects built
- Implemented an algorithm for barcode detection and decoding with accuracy exceeding 96%

PROJECTS

DocVerify - *Python, OpenCV, Flask, MySQL* *March 2023 – Present*
- This project aims to automate the process of document verification for financial institutions by reducing the turnaround time from days to not more than 30 seconds.
- Using Image classification, CV technologies, OCR and NLP meaningful data can be extracted from uploaded documents.
- Onus of completing KYC timely with correct documents will shift entirely to users.

Clipper - *Python, OpenCV, Flask* *October 2022 – February 2023*
- Building a chrome extension to extract text from images.
- Python utilities are used to capture the image as the user drags over the region of interest.
- Image is preprocessed and text is extracted.
- Once extracted, the text is saved on clipboard and the user can paste the text according to his need.

Face Recognition App - *Python, OpenCV, Kivy, TensorFlow* *September 2022 – October 2022*
- Created a Kivy app where the user inputs their image from a webcam and obtains results if the face is matched or not.
- Implemented a research paper on Siamese Neural Networks.
- Trained the custom model on a custom dataset of 5000+ images.

Medical Document Parser - *Python, OpenCV, FastAPI, Regex* *August 2022*
- Created a parser, which helps to extract useful information like name, contact details, address, medicines used, direction of use, vaccination details, medical history.
- User provides the document in PDF form and OpenCV and Regex is used to extract the details.
- API end-points are created using FastAPI to retrieve data at frontend in real-time.

Vignetomate - *Python,Selenium, Pandas* *August 2022*
- Created a python script to automate the process of ordering vignettes from this website.
- Uploads name of country, validity, plate number, plate type, etc. from an excel file.
- Reduce the input time from more than 4 minutes to mere 10 seconds.

ACTIVITIES & LEADERSHIP

E-cell, SRMIST **Chennai, India**
Associate Lead *February 2022 – Present*
Team Envision, Aaruush **Chennai, India**
Committee Head *September 2021– November2023*

Other Links

Laptop Price Predictor : https://harsh-laptop-price-predictor.streamlit.app/
Spam Classifier : https://email-spam-classifier-harshjainsk.streamlit.app/
Image Captioning : https://image-caption-generator-harshjainsk.streamlit.app/