Mann Saradva

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SUMMARY:

Looking for opportunity in data science and related technology. I'm a Data Science enthusiast who loves to uncover the hidden facts and meaningful insights from messy data. I have knowledge in predictive modelling, data preprocessing, machine learning algorithms to solve challenging business problems. Also I have strong background in Python and knowledge of various types of machine learning, deep learning, computer vision and natural language processing techniques.

EDUCATIONAL QUALIFICATIONS:

QUALIFICATION	NAME OF INSTITUTION	BOARD/UNIVERISTY	CPI / PERCENTAGE	YEAR OF PASSING
B E	Lalbhai Dalpatbhai College of Engineering	Gujarat Technological University	7.39	2021
H S C (Science)	Vinay Science School	Gujarat Higher Secondary Education Board	80.0%	2017
S S C	Vinay Vidhya Mandir	Gujarat Secondary Education Board	82.5%	2015

TECHNICAL SKILLS:

Programming languages	Python, Java
Tools/IDE	Pycharm, Jupyter notebook
Web	Flask, HTML, CSS
Machine learning	Regression, Classification, Clustering, Data preprocessing, Data analysis, Data visualization, Pandas, Scikit learn, Matplotlib, numpy
Deep learning/Computer Vision	Tensorflow, Keras, CNNs, Object detection, Transfer Learning, Data augmentation, Darknet, OCR, OpenCV, Image Processing
Natural Language Processing	RNN, LSTM, Autoencoder, Text preprocessing, Sentiment Analysis

INTERNSHIPS AND TRAININGS:

Petpooja | Data science intern Feb 2021 – Present

- Working on document localization in natural images by recursive application of a CNN.
- Working on tesseract for image to text conversion.
- Worked on Image processing techniques to improve accuracy of OCR.

iNeuron.ai | Deep learning intern Aug 2020 - Nov 2020

- Involved in data preprocessing technique for creating the best computer vision model
- Worked in Data Annotation of the images using labelimg tools for labeling the data.
- Also used Data Augmentation Technique for generating more new images from existing dataset for getting more data.
- Successfully built a computer vision models using yolo for text localization.
- Performed image processing on detected crop images.
- Also worked on Optical character recognition techniques.

PROJECTS:

Project Name	Automatic Cheque Book Processing
Project Description	Automatic Cheque Book Processing an automated system which extracts relevant details on a bank cheque like Payee Name, Amount, Date, Bank Name, MICR, Signature using Image Processing, Optical Character Recognition and Computer Vision. Detect the specific field of cheque using darknet, crop all detected part from image and apply some image processing techniques to enhance images after that apply OCR techniques to extract the information.
Technology Used	Python, Computer Vision, OpenCV, Tensorflow, YOLOv4, Tesseract-OCR, Google Vision API, Image Processing

Project Name	Automatic Number Plate Recognition [Github]
Project Description	Automatic Number Plate Recognition is a system capable of reading vehicle number plates without human intervention through the use of high speed image capture with supporting illumination, detection of characters within the images provided, verification of the character sequences as being those from a vehicle license plate, character recognition to convert image to text; so ending up with a set of metadata that identifies an image containing a vehicle license plate and the associated decoded text of that plate.
Technology Used	Python, Computer Vision, OpenCV, Tensorflow, YOLOv4, tesseract

Project Name	IPL Data Analysis & Prediction (End to End Machine Learning Project) [Demo]
Project Description	A flask web application for analyzing IPL data (2008-2020), IPL match winner prediction, final score of team prediction using Machine learning and also it shows the players records based on user input using web scrapping. I deployed this web application on heroku. Datasets use in this project is collecting from www.cricsheet.org. It's provide ball-by-ball data for IPL matches.
Technology Used	Python, Machine learning, Flask, Heroku, Bootstrap4, CanvasJS, Web Scrapping

Project Name	People Images Finder
Project Description	Wherever you go to the family functions, ceremonies, picnic and academic / business conferences, every time you need to approach cameraman to get your photos. To find your photos from the cameraman's computer is a very time consuming task. To find all your photos with multiple peoples or individuals by using your single photo. Mentioned, single photo works as a key to find your face from the other photos. As an output you will get one folder with all your photos from the input photos.
Technology Used	Python, MTCNN, FaceNet, Keras

Project Name	Real-time Document Localization in Natural Images
Project Description	A computationally efficient document segmentation algorithm that recursively uses convolutional neural networks to precisely localize a document in a natural image in real-time.
Technology Used	Python, Deep learning, RecursiveCNN, OpenCV, Tensorflow

Project Name	Face Mask Detection [Github]
Project Description	Face mask detection system which uses deep learning to detect whether a person is wearing a face mask or not. This system can therefore be used in real-time applications which require face-mask detection for safety purposes due to the outbreak of Covid-19.
Technology Used	Python, Deep learning, Computer vision, OpenCV, Tensorflow, SSDlite

CERTIFICATIONS:

- **Machine Learning With Python(cognitive class):**
  - Feature Engineering, Regression, Classification, Clustering
- **Deep Learning Masters(iNeuron):**
  - CNNs, Image Classification, Object Detection, Tensorflow, Keras, Data Augmentation, Transfer learning, Image processing, OpenCV, OCR
- **Natural Language Processing Masters(iNeuron):**
  - RNN, LSTM, Autoencoder, Text preprocessing, Sentiment Analysis

PERSONAL INFORMATION:

- Date Of Birth : 19-Apr-2000
- Gender : Male
- Language Known : English, Gujarati and Hindi

DECLARATION:

I hereby declare that all of the above information is true, complete and correct to the best of my knowledge.

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