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	Data preprocessing, Data analysis, Data visualization, Pandas, Scikit learn, Matplotlib, numpy
Deep learning/Computer Vision	Tensorflow, Keras, CNNs, Object detection, Transfer Learning, Data augmentation
Natural Language Processing	RNN, LSTM, Encoder-decoder, Text preprocessing, Word embedding

INTERNSHIPS AND TRAININGS:

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 tensorflow & darknet for text localization.
- Performed image processing on detected crop images.
- Also worked on Optical character recognition techniques.

PROJECTS:

Project Name	Automatic Number Plate Recognition
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, Pytesseract
Link	https://github.com/Mann1904/Automatic-Number-Plate-Recognition

Project Name	Face Mask Detection
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. This project can be integrated with embedded systems for application in airports, railway stations, offices, schools, and public places to ensure that public safety guidelines are followed.
Technology Used	Python, Deep learning, Computer vision, OpenCV, Tensorflow, SSDlite
Link	https://github.com/Mann1904/FaceMaskDetection

Project Name	IPL Data Analysis & Prediction (End to End Machine Learning Project)
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
Link	https://ipl-data-analysis1.herokuapp.com/

Project Name	Shredder Machine-Workers Safety Project
Project Description	Accident occurred when a worker was feeding paper into a shredder machine and did not release the paper in time to prevent the fingers from entering the shredder opening. As paper shredder continued to pull the paper into the shredder opening, it also pulled in the worker's fingers. Providing safety to workers who works on paper shredder machine using computer vision hand detection.
Technology Used	Python, Computer vision, OpenCV, Deep learning, Tensorflow
Link	https://github.com/Mann1904/ShredderMachine-Workers-Safety-Project

Project Name	Automatic Helmet Detection
Project Description	One of the major causes of serious injuries or death in accidents involving two-wheelers is that the rider was not wearing a helmet. Policemen manually checking whether the riders are using helmets is the only available method employed presently. So there is a need for systems that can be automatically detect whether a rider is wearing helmet or not. The AI-based Helmet Detection technology can easily detect people who are without helmets on the road.
Technology Used	Python, Computer vision, OpenCV, Tensorflow, YOLOv4-tiny
Link	https://github.com/Mann1904/Helmet-Detection-YOLOv4-tiny

CERTIFICATIONS:

- **Machine Learning With Python(cognitive class):**
  - Feature Engineering, Regression, Classification, Clustering
- **Neural Networks and Deep Learning(coursera):**
  - Deep learning fundamentals, Neural network
- **Deep Learning Masters(iNeuron):**
  - CNNs, Image Classification, Object Detection, Tensorflow, Keras, Data Augmentation
- **Natural Language Processing Masters(iNeuron):**
  - RNN, LSTM, Encoder-Decoder, Text preprocessing

PERSONAL INFORMATION:

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

DECLARATION:

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

Mann Saradva