Shankar chavan

Data Scientist

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Profile

Data Scientist with **1.5+ years** of experience comprising Deep learning, Computer vision and Machine learning. Strong willingness to exhibit my proficiency in Deep learning and Machine Learning Algorithms in professional environment.

Professional Experience

11/2021 – present
Banglore, India

Jr. Data Scientist, *iNeuron.ai*

- Processing, cleansing and verifying the integrity of data used for analysis.
- Doing analysis and presenting results in a clear manner.
- Working on building and optimizing the state-of-the-art Machine learning and Deep learning models.
- Working and learning on how to create and automate the project lifecycle with the help of creating data pipelines.

04/2021 – 11/2021
Banglore, India

Data Science Intern, *iNeuron.ai*

Projects

Aerial Image Mismatch, *iNeuron.ai*

- The objective of this project is to detect the changes in the geographical co-ordinates in the different areas of the earth.
- We used **Instance segmentation** to extract the mask and polygons of the objects present in the satellite images.
- Decided to use **U-net architecture** and **Detectron 2's Mask_RCNN_R_50_FPN_3x model** for image segmentation.
- There were 5 objects I have segmented using **Detectron 2** library.

Mask Detection

- The objective of the project is to determine whether a person has worn a mask or not.
- Collected 500 + 500 (Mask, No mask) images to train the model.
- Firstly, trained **Faster RCNN** model, but the FPS was very low (i.e. < 1 FPS) then used **SSD with Mobilenet** to get better accuracy and achieved good FPS rate i.e. 5 FPS.
- In this project I am detecting the person in the frame first. For this I have used pre-trained model – **SSD-Mobilenet**, then I am detecting whether the person is wearing a mask or not.
- For training the model used **Nvidia Quadro P-4000 GPU**.

Face Recognition, *iNeuron.ai*

- The objective of this project is to use face recognition for door security.
- Most doors are controlled by persons with the use of keys, security cards, password or pattern to open the door. The purpose of building this kind of system for improvement of the door security of sensitive locations by using face detection and recognition.
- The Database used in the project was MonogDB.
- Custom CNN model and transfer learning algorithm was used during this project.
- Companies Data was used to create this project.

Brand Measure

- The objective of this project is to give exact Marketing solution to a company.
- We collected data in the form of Surveys. (Voice call data).
- We then converted those recordings into text form and applied spelling corrector.
- Then we used Key-word spotting to extract the meaning of the sentence.
- Finally on the basis of the key words, we are generating BI report to show in which area/region company should more focus on spending.

Skills

Programming languages :
Python

Deep learning algorithms :
ANN, CNN, RNN

Database
MySQL, MongoDB, Cassandra

Cloud
Heroku, AWS

Machine learning algorithms :
Linear regression, Logistic regression, Decision tree, Random forest, XGBoost

Computer Vision :
Image Classification, Object Detection, Image Segmentation, OpenCV

Frameworks
Tensorflow, PyTorch

MLops
Docker, Kubernetes

Education

2015 – 2017
Pune, India

Master Degree, *SPPU University*

2012 – 2015
Pune, India

Bachelors Degree, *SPPU University*

Certificates

HackerRank Problem Solving

Data Science (DLCVNLP)
iNeuron.ai

Achievements

- Conducted 7 days workshop on Python Programming language in KIET college, Kakinada, Andhra Pradesh.
- Successfully conducted career guidance drive multiple times in current organization as a community event.