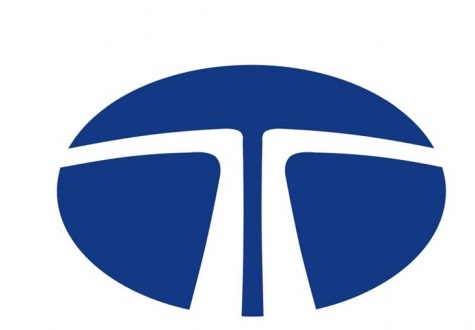
##### PROJECT REPORT



**SUBMITTED TO THE**

**Analytics & Insights DEPARTMENT**

**TATA STEEL, JAMSHEDPUR**

**Compiled by,**

**Gaurav Kumar**

**Data Analytics & Decision Science**

**RWTH UNIVERSITY, AACHEN Germany**

Certificate

This is to certify that **Gaurav Kumar**, student of MS in DATA ANALYTICS AND DECISION SCIENCE of 2nd semester from **RWTH UNIVERSITY**, AACHEN Germany, has successfully completed her vocational training at TATA STEEL, JAMSHEDPUR under our guidance and successfully completed a project report on

* Mask detection and Social Distancing using Jupyter notebook.

The duration of training was from 10th APRIL’2020 to

Project Guide,

Satish Agarwal

Sr. Analyst, One IT

TATA STEEL

JAMSHEDPUR

**ACKNOWLEDGEMENT**

Knowledge is the one can posses. It never harms you and it is only thing that can't be lost. They are many people who simply being what they are, inspire and influence us to do things that we never thought ourselves capable of doing. I can only express my gratitude to them although this is not an adequate compensation for the time they spend on me.

To begin with, I would like to thank to **Mr. Hari Darshan** **Singh and Mr. Arun Kumar Singh** and my project mentor **Mr. Satish Agarwal** for their immense support and providing with necessary information regarding the project and all the support in completing it.

I would like to thank the employees of TATA STEEL who were always there to clear my doubt.

I would also like to express my gratitude and thanks to the SNTI department for giving me the permission to do summer training at Steel, Jamshedpur.

At last I would like to thanks my parents and my brother for the immense support and the time they spend on me.

**THANKING YOU!!!! BY,**

**Gaurav Kumar**

**Data Analytics and Decision Science,**

**RWTH UNIVERSITY Aachen, Germany**

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Tata Iron and Steel Company was established by [Dorabji Tata](https://en.wikipedia.org/wiki/Dorabji_Tata) on 26 August 1907, as part of his father [Jamsetji](https://en.wikipedia.org/wiki/Jamsetji_Tata)'s [Tata Group](https://en.wikipedia.org/wiki/Tata_Group). By 1939 it operated the largest steel plant in the British Empire. The company launched a major modernization and expansion program in 1951. Later in 1958, the program was upgraded to 2 Million metric tons per annum (MTPA) project. By 1970, the company employed around 40,000 people at Jamshedpur, with a further 20,000 in the neighboring coal mines. In 1971 and 1979, there were unsuccessful attempts to nationalize the company. In 1990, it started expansion plan and established its subsidiary Tata Inc. in New York. The company changed its name from TISCO to Tata Steel in 2005. Tata Steel on Thursday (12 Feb 2015) announced buying three strip product services centers in Sweden, Finland and Norway from SSAB to strengthen its offering in Nordic region. The company, however, did not disclose value of the transactions.

In August 2004, Tata Steel agreed to acquire the steel making operations of the Singapore-based NatSteel for $486.4 million in cash. NatSteel had ended 2003 with turnover of $1.4 billion and a profit before tax of $47 million.

Tata Steel acquired a majority stake in the Thailand-based steelmaker Millennium Steel for a total cost of $130 million. It paid US$73 million to Siam Cement for a 40% stake and offered to pay 1.13 baht per share for another 25% of the shares of other shareholders.

**COMPANY PROFILE**

**Tata Steel Limited** (formerly Tata Iron and Steel Company Limited (TISCO)) is an Indian multinational [steel](https://en.wikipedia.org/wiki/Steel)-making company headquartered in [Mumbai, Maharashtra](https://en.wikipedia.org/wiki/Mumbai,_Maharashtra), India, and a subsidiary of the [Tata Group](https://en.wikipedia.org/wiki/Tata_Group). It was the [11th largest steel producing company in the world](https://en.wikipedia.org/wiki/List_of_steel_producers) in 2013, with an annual [crude steel](https://en.wikipedia.org/wiki/Crude_steel) capacity of 25.3 million tons, and the second largest private-sector steel company in India (measured by domestic production) with an annual capacity of 9.7 million tons after [SAIL](https://en.wikipedia.org/wiki/Steel_Authority_of_India).

Tata Steel has manufacturing operations in 26 countries, including Australia, China, India, the Netherlands, Singapore, Thailand and the United Kingdom, and employs around 80,500 people. Its largest plant is located in [Jamshedpur](https://en.wikipedia.org/wiki/Jamshedpur), [Jharkhand](https://en.wikipedia.org/wiki/Jharkhand). In 2007 Tata Steel acquired the UK-based steel maker Corus which was the largest international acquisition by an Indian company till that date. It was ranked 486th in the 2014 [Fortune Global 500](https://en.wikipedia.org/wiki/Fortune_Global_500) ranking of the world's biggest corporations. It was the seventh most valuable Indian brand of 2013 as per [Brand Finance](https://en.wikipedia.org/wiki/Brand_Finance).

On 16 February 2012 Tata Steel completed 100 years of steel making in India.

Tata Steel is headquartered in Mumbai, Maharashtra, India and has its marketing headquarters at the [Tata Centre](https://en.wikipedia.org/wiki/Tata_Centre) in [Kolkata, West Bengal](https://en.wikipedia.org/wiki/Kolkata,_West_Bengal). It has a presence in around 50 countries with manufacturing operations in 26 countries including: India, Malaysia, Vietnam, Thailand, UAE, Ivory Coast, Mozambique, South Africa, Australia, United Kingdom, The Netherlands, France and Canada.

Tata Steel primarily serves customers in the automotive, construction, consumer goods, engineering, packaging, lifting and excavating, energy and power, aerospace, shipbuilding, rail and defence and security sectors.

**AWARDS AND RECOGNITIONS**

* Tata Steel was awarded the '2015 World's Most Ethical Company' award under the Metals category by the [Ethisphere Institute](https://en.wikipedia.org/wiki/Ethisphere_Institute). This was the third time that Tata Steel won this award.
* The Ministry of Steel awarded Tata Steel the Prime Minister's Trophy for 'Best Performing Integrated Steel Plant' in the year 2010-11, thus making it the eighth time that Tata Steel received this award since the trophy's institution in 1992-93.
* In 2014, Tata Steel received the *‘*Top Indian Company in the Iron and Steel Sector’ Dun & Bradstreet Corporate Award 2014, after entering the list of India's Top 500 Companies published by [Dun & Bradstreet](https://en.wikipedia.org/wiki/Dun_%26_Bradstreet) and excelling along various business and social parameters.
* In the year 2013, Tata Steel was ranked India's 7th most admired company by [Fortune magazine](https://en.wikipedia.org/wiki/Fortune_(magazine)). It was India's most admired company in 2012.
* In 2013, Tata Steel received the [Most Admired Knowledge Enterprises](https://en.wikipedia.org/w/index.php?title=Most_Admired_Knowledge_Enterprises&action=edit&redlink=1) (MAKE) award for 2012 at Global and Asian level. The company has previously been recognized by the Indian MAKE awards on six accounts since its inception in 2005.
* It won the 'Golden Peacock' award in 2009 for its corporate social responsibility (CSR) initiatives.
* In 1996, the Tata Bearings division was awarded the "Best of all" [Rajiv Gandhi National Quality Award](https://en.wikipedia.org/wiki/Rajiv_Gandhi_National_Quality_Award)
* In 2008, Tata Steel was awarded [Deming Application Prize](https://en.wikipedia.org/wiki/Deming_Prize) for excellence in Total Quality Management.
* In 2012, Tata Steel became the first integrated steel company in the world to be awarded the [Deming Grand Prize](https://en.wikipedia.org/wiki/Deming_Prize).
* The company features in the Climate Disclosure Leadership Index of CDP (see [Carbon Disclosure Project](https://en.wikipedia.org/wiki/Carbon_Disclosure_Project)). Its disclosure received 97% CDLI score in CDP 2014 (85% in CDP 2013) that is rated highest amongst global Steelmaking companies and highest amongst Materials sector in India.
* Tata Steel was ranked 110th among India's most trusted brands according to the [Brand Trust Report](https://en.wikipedia.org/wiki/The_Brand_Trust_Report) 2012, a study conducted by Trust Research Advisory. In the [Brand Trust Report](https://en.wikipedia.org/wiki/The_Brand_Trust_Report) 2013, Tata Steel was ranked 364th among India's most trusted brands while according to the Brand 2014, Tata Steel was ranked 264th among India's most trusted brands. It was among 16 of [Tata Group](https://en.wikipedia.org/wiki/Tata_Group)'s subsidiary brands to feature in the report apart from the parent brand. [Ratan Tata](https://en.wikipedia.org/wiki/Ratan_Tata) also featured in the report among India's most trusted 'Personality' brands.

**Project 1: Detect the social distance and Mask**

**1.1 Introduction**

Coronavirus disease 2019 (COVID-19) is an infectious disease caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). It was first identified in December 2019 in Wuhan, the capital of China's Hubei province, and has since spread globally, resulting in an ongoing pandemic. As of 7 May 2020, more than 3.78 million cases have been reported across 187 countries and territories, resulting in more than 264,000 deaths. More than 1.25 million people have recovered.

The virus is primarily spread between people during close contact, often via small droplets produced by coughing, sneezing, and talking. The droplets usually fall to the ground or onto surfaces rather than remaining in the air over long distances.

People may also become infected by touching a contaminated surface and then touching their face. Recommended measures to prevent infection include frequent hand washing, maintaining physical distance from others face covering use by the general public vary, with some authorities recommending, some recommending against, and others requiring their use

**1.2 TOOL’S USED**

"PREVENTION IS BETTER THAN CURE" as world grow technology become more powerful, when whole world is undergoing through this situation, technology play vital role to solve the problem.

1.Visualization:

I have used Tableau Desktop to visualize the region affected by covid-19

Visualization 1: Status of Covid 19

A screenshot of a cell phone

Description automatically generated

If you want to show the variation of the above visualization, please visit the link given

<https://public.tableau.com/profile/gaurav.kumar7925#!/vizhome/StatusofCovid-19/Dashboard1>

Visualization 2: Status of Covid all over the world

A picture containing text, map

Description automatically generated

If you want to show the variation of the above visualization, please visit the link given

<https://public.tableau.com/profile/gaurav.kumar7925#!/vizhome/NewCasesandTotalCasesCoVidMapview/Dashboard3>

2.JupyterNoteBook

Project Jupyter exists to develop open-source software, open-standards, and services for interactive computing across dozens of programming languages.

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDyRXhpZgAATU0AKgAAAAgABAE7AAIAAAANAAAISodpAAQAAAABAAAIWJydAAEAAAAaAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdhdXJhdiBLdW1hcgAAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzU1AACSkgACAAAAAzU1AADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**1.3 Monitor Social Distancing in a Public Area**

Social distancing is an important way to slow down the spread of infectious diseases.

People are asked to limit their interactions with each other, reducing the chances of the disease being spread with physical or close contact.

we have used python combined with deep learning and computer vision to monitor social distancing.

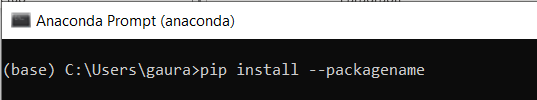
**1.4 Implementation of the process**

**STEP 1: Install required packages**

First, I have installed the required packages

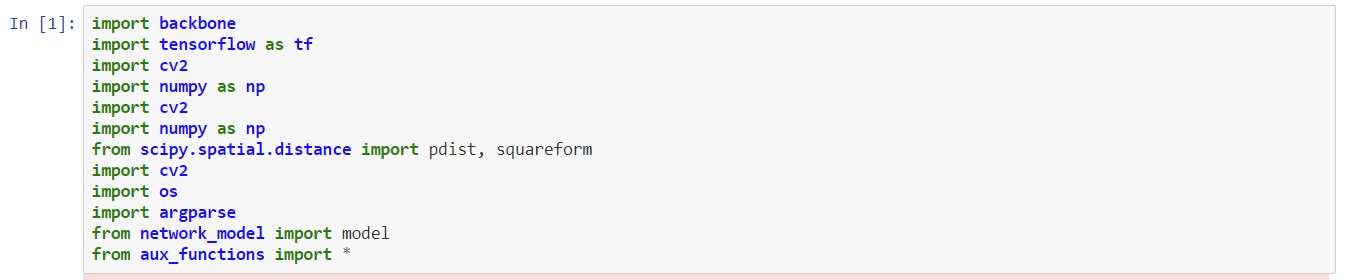
* absl-py
* Astor
* bleach
* certify
* enum34
* gast
* google-pasta
* grpcio
* h5py
* html5lib
* Keras-Applications
* Keras-Preprocessing
* Markdown
* numpy
* OpenCV-python
* protobuf
* SciPy
* six
* tensor board
* TensorFlow
* TensorFlow-estimator
* tensorflow-tensorboard
* term color
* Werkzeug
* Wrapt

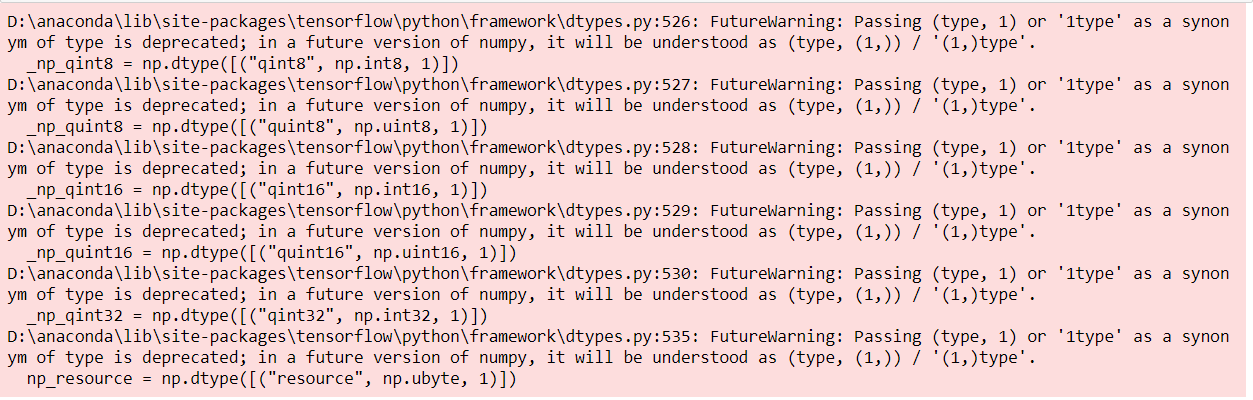
We must run following command in anaconda prompt to install all these packages using the following command



**STEP: 2 Python Code**

Importing the library



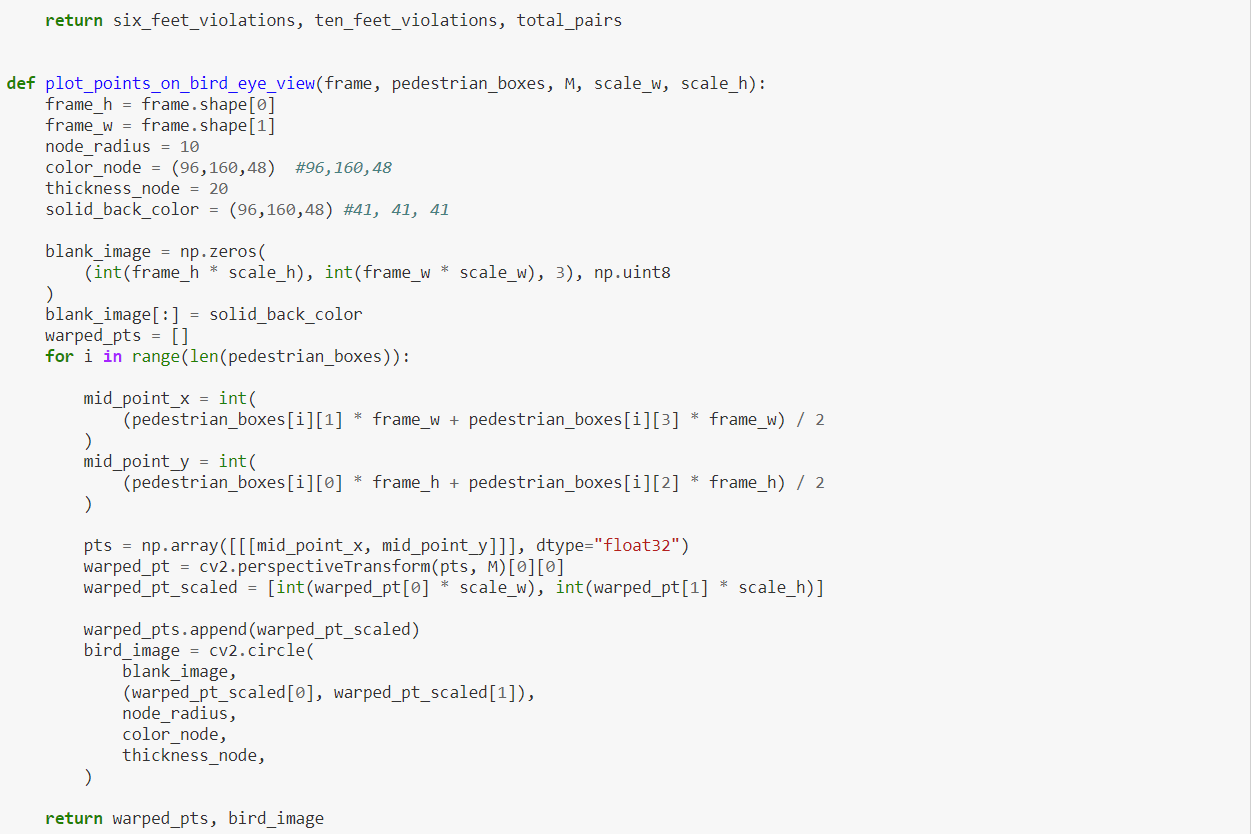


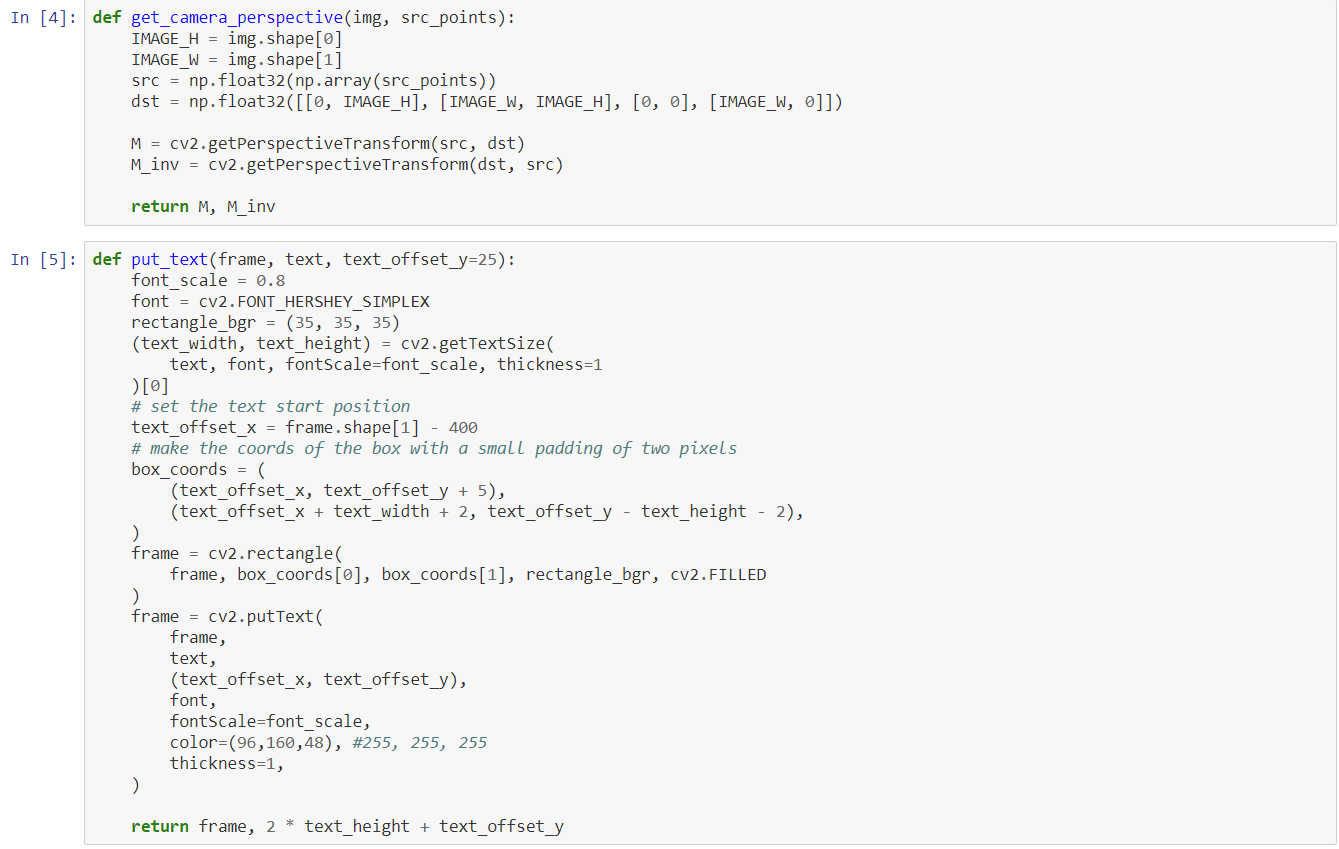
NETWORK

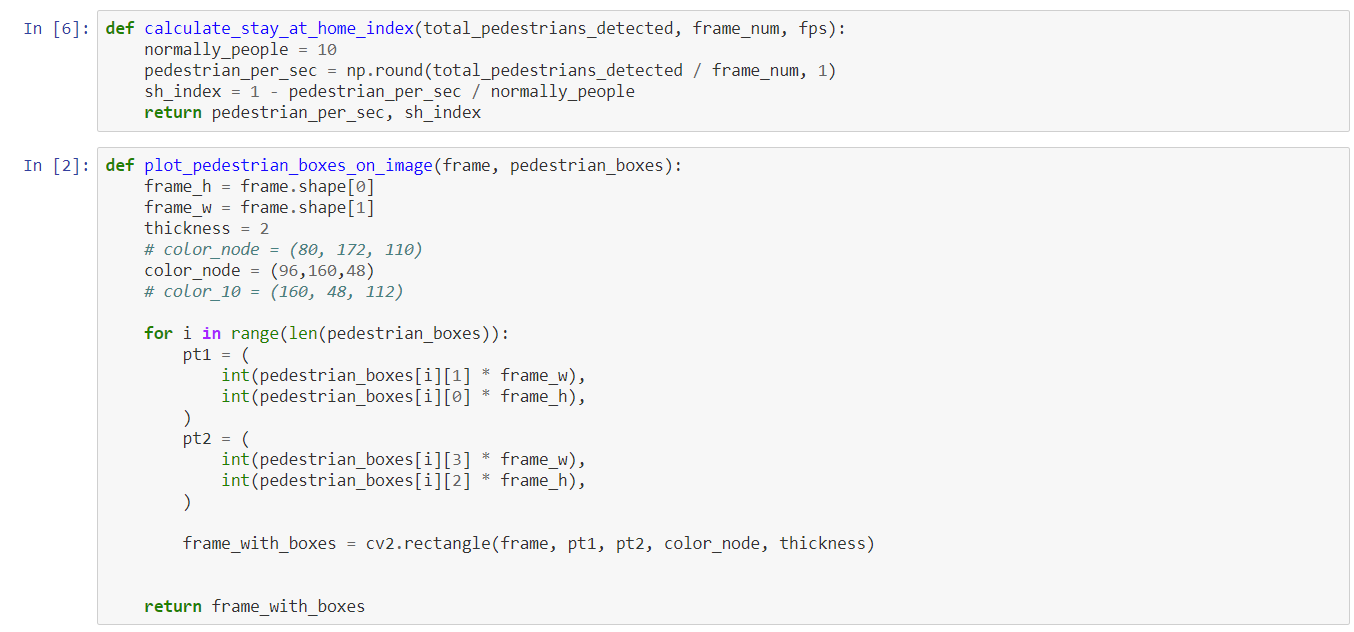


Define the Function





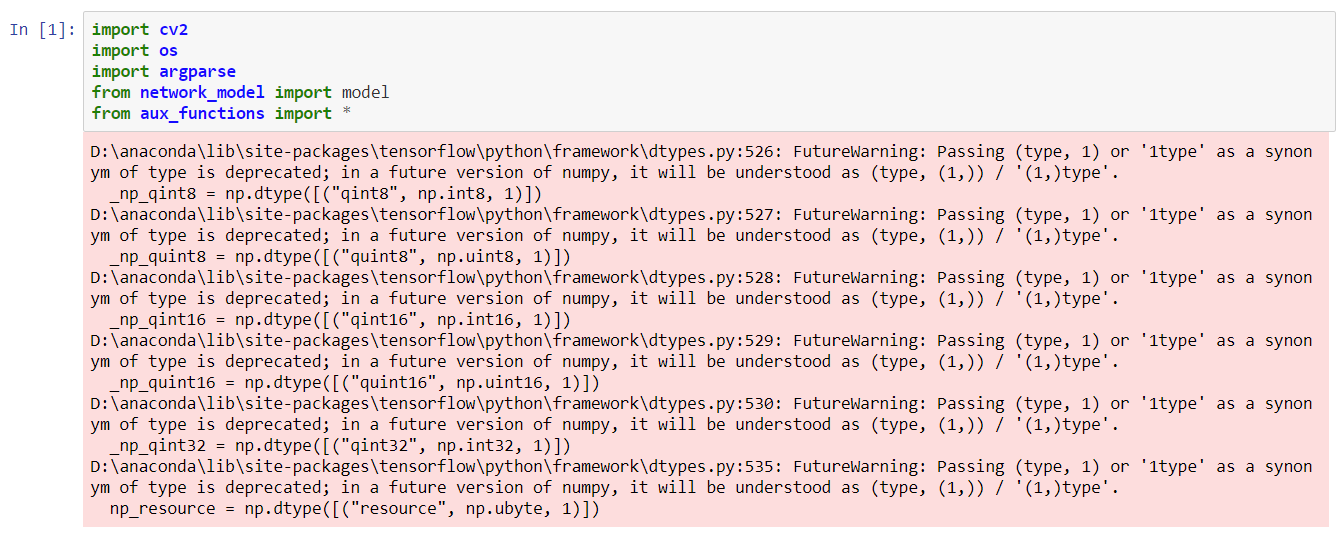


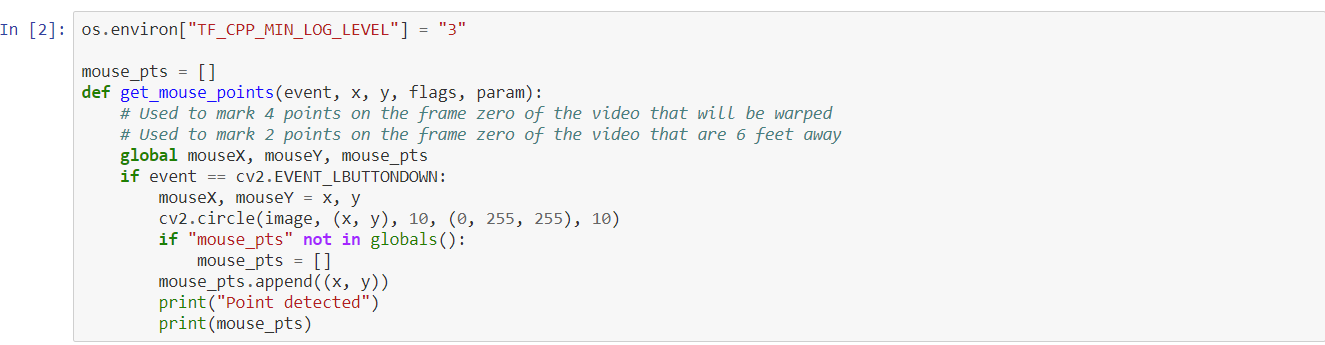


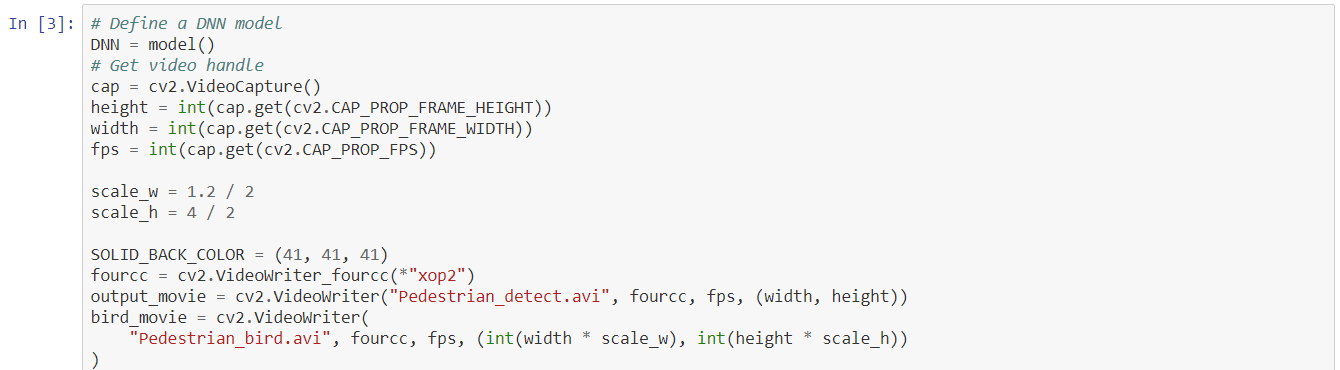
Fore access the .ipynb file please find the attachment

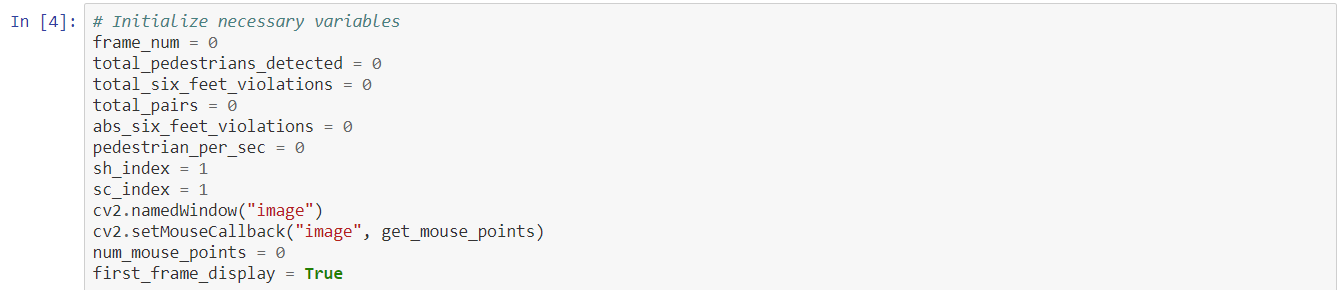


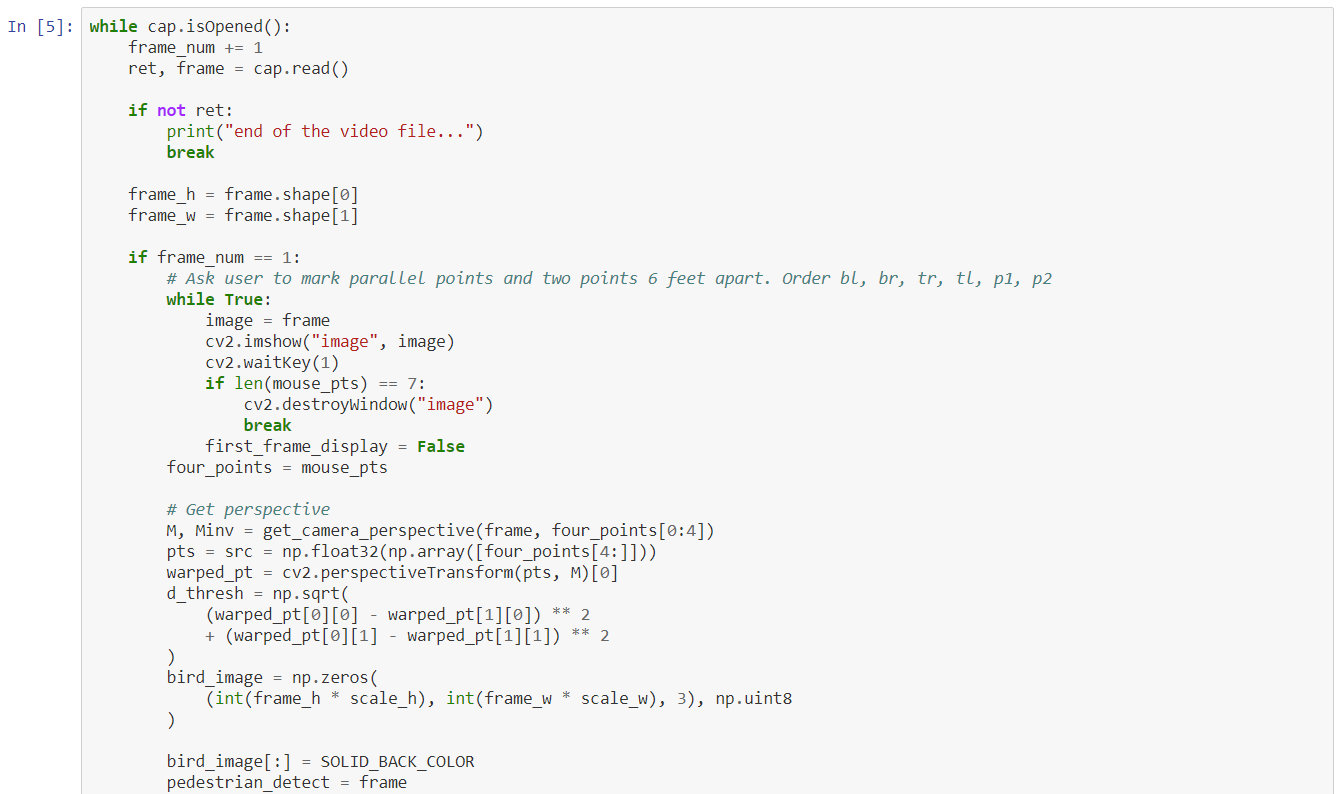
**Main Function :**

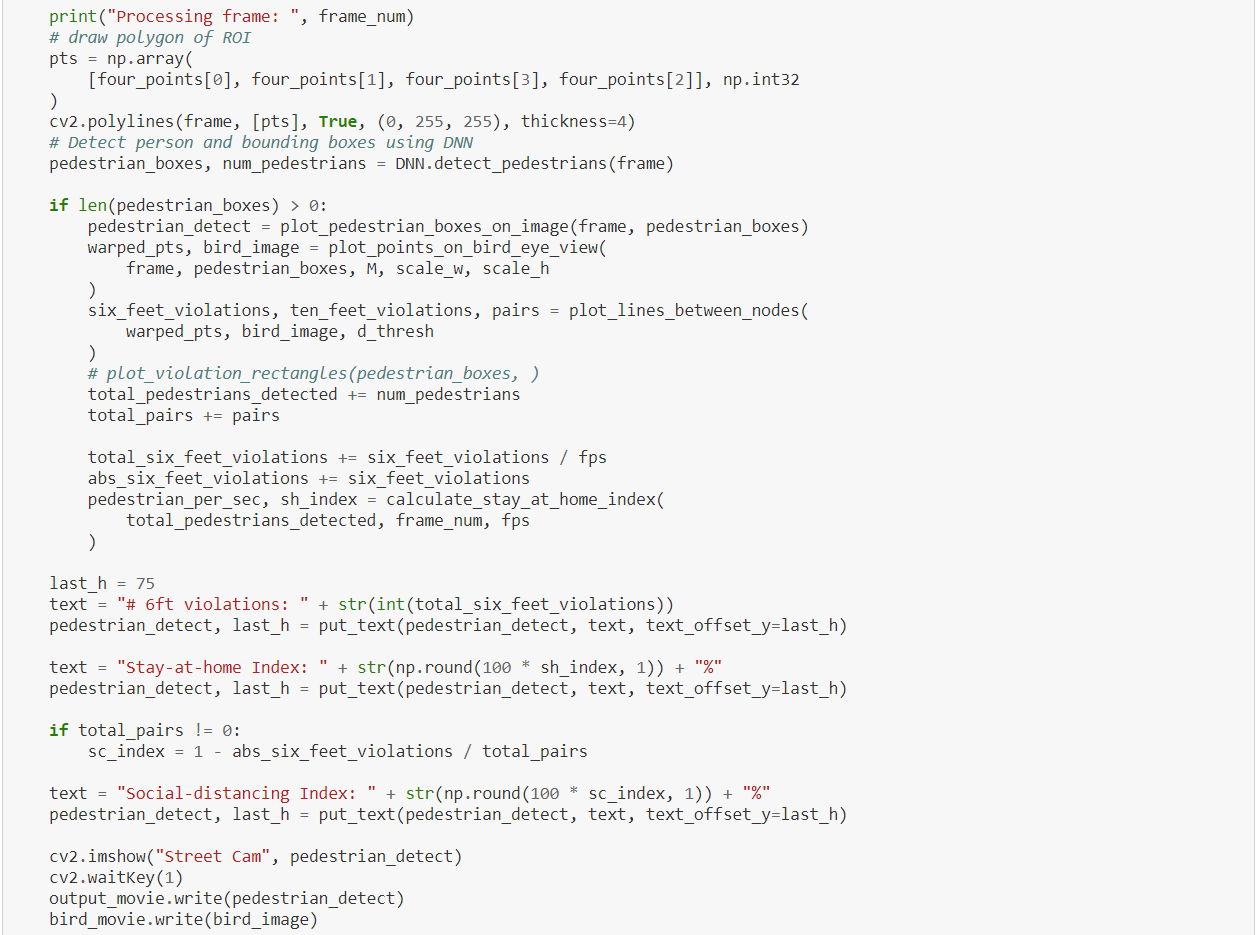










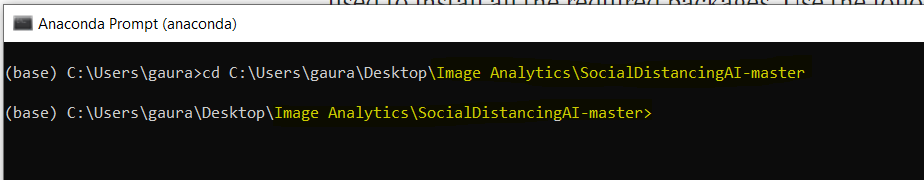


Please attached the file for main function

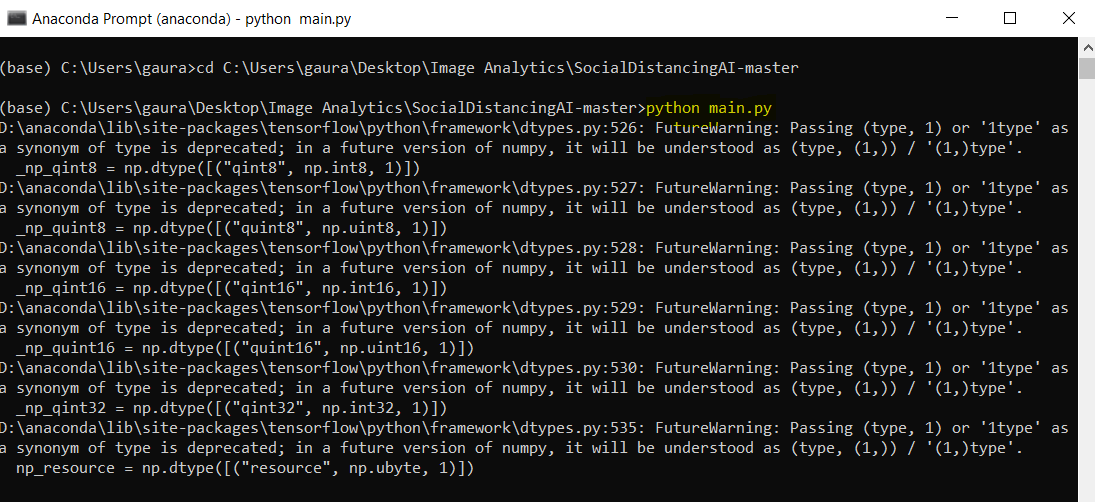


**STEP 3 : OUTPUT**

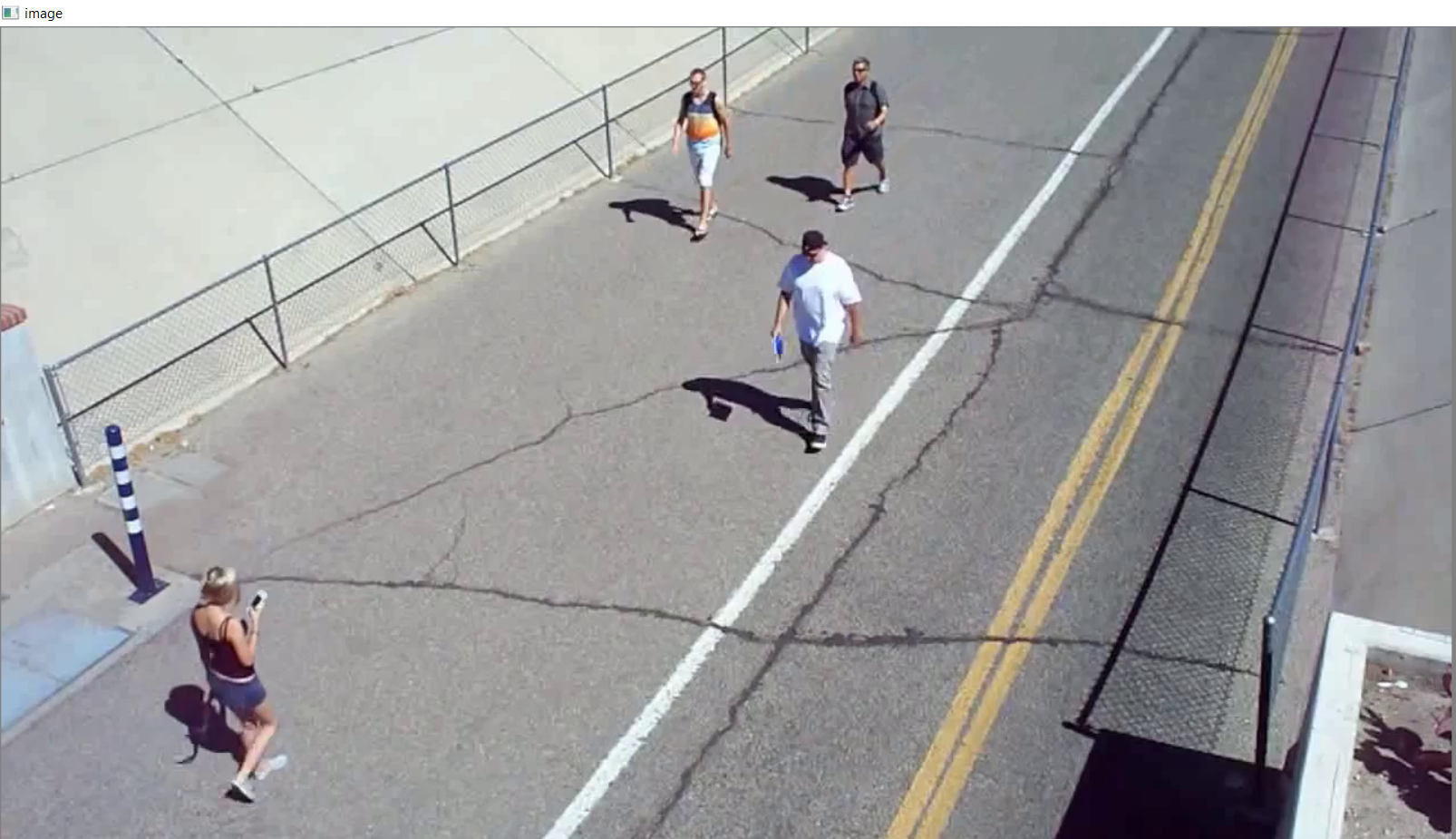
Once the code is executed , we must go to anaconda prompt and then access the file where this code is placed



Once we will in the respective folder, we must run the following command to execute main function

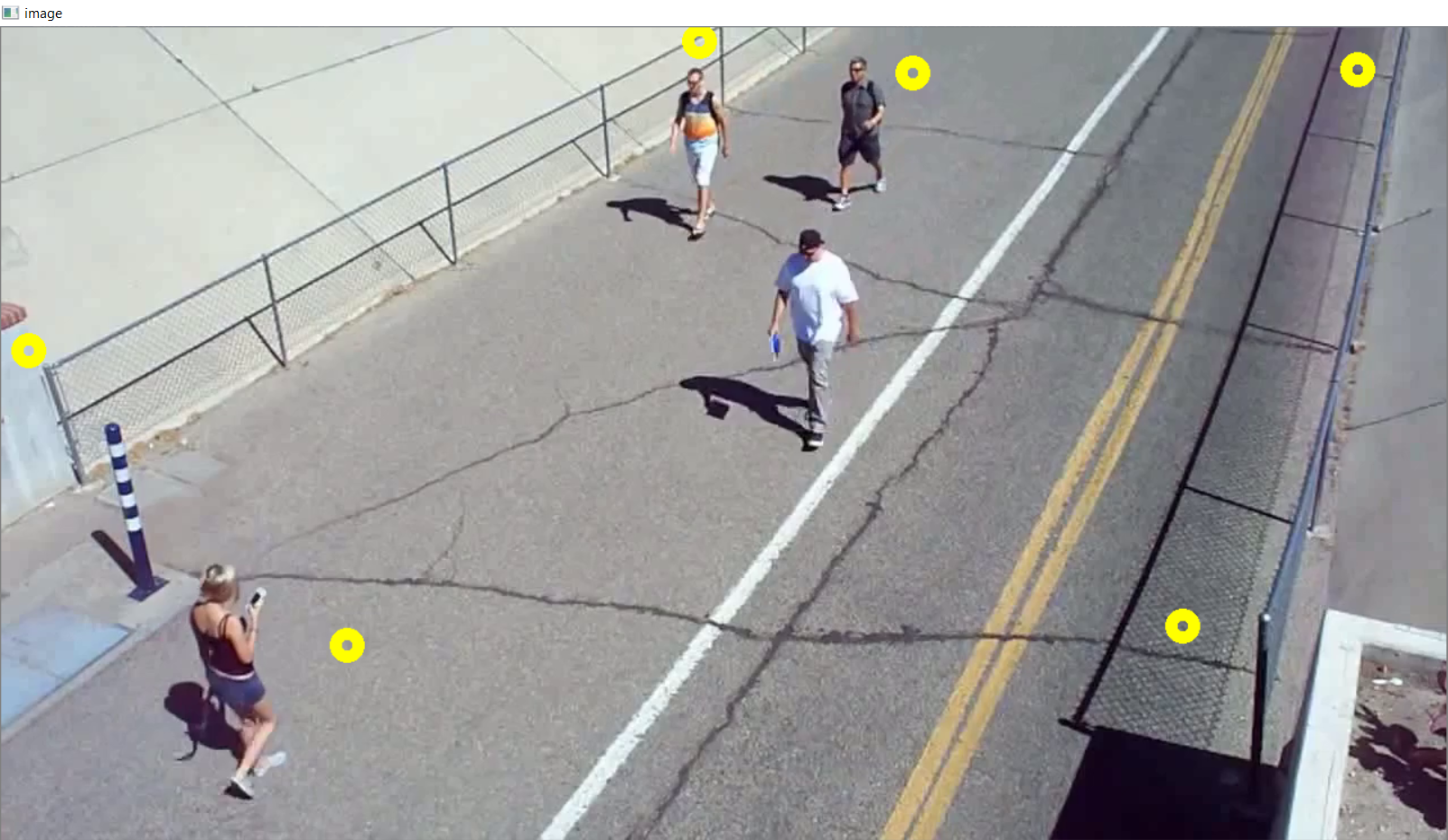


Once this function is executed, we will get one image frame



The code expects the user to mark 6 points by clicking appropriate positions on the frame.

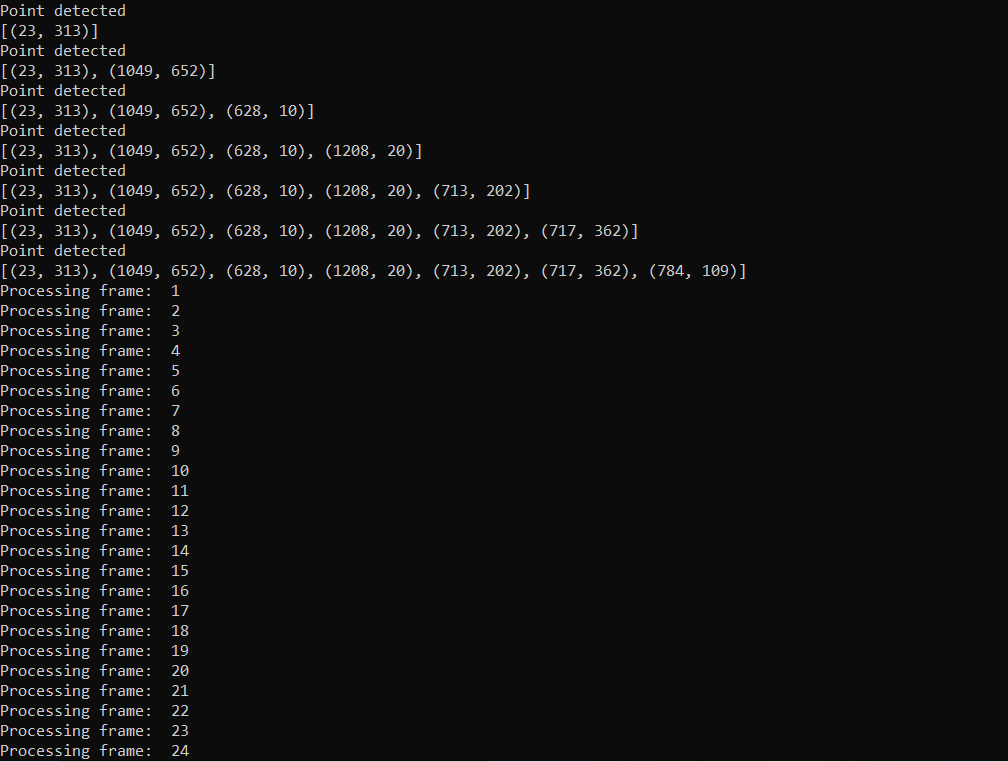
These points are necessary to provide a user perspective of the video.

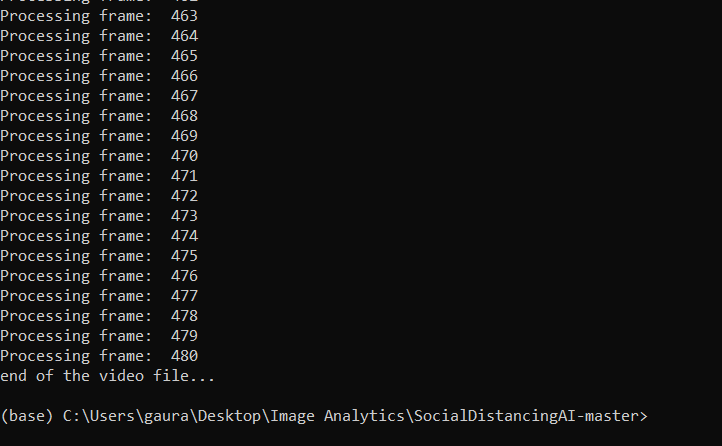


The first output of code is the original video with detected pedestrians in it. The pedestrians are localized with purple boxes. Please have a look to attached video .



Once the point detected we can also detect the data frame co-ordinate in the Anaconda prompt





Social Distancing Parameters:

* #6 ft violations: Number of times the pedestrians violated the 6 feet safe distance threshold
* Stay-at-home Index: Quantifies how many people are staying home as compared to the normal routine pedestrian traffic. 0% means that there is no change in the pedestrian traffic compared to normal days, 50% means half of the people are staying at home.
* Social-distancing Index: Quantifies the social distancing being maintained. 50% means half of the interactions violate the safe 6 feet distance criteria.

**1.5 Working**

Localize the pedestrian in the frame

Detect the pedestrian in the frame

Get Cemara Frame

Display lines between pedestrian between who are close

Calculate and Display Social Distancing Parameter

Find the Distance between pedestrian

**1.6 Summary**

The algorithm can be used to analyse social distancing in a public area and carry out necessary actions to better deal with the pandemic.

**Conclusion**

The training at TATA STEEL proved to be a fruitful job for us. It has been a great experience to study the diverse aspects of an Industrial Enterprise. Right from knowing the disciplines and the policies of the company to the work and management which prevails in the company has been a great experience. Also it was a knowledgeable approach to our entrance into the corporate world. . Unless one undergoes practical training it is difficult to relate to all that is being taught in theory. Moreover one gets the feel of working in a factory.

The next important thing that one learns in the training is how to relate himself to his colleagues, his seniors and the employees of his division. Until and unless a person interacts actively with his co-workers, he will not be able to dispel his duties well because in an organization an individual alone, isolated from his workforce cannot complete a job.

**Bibliography**



* Tata Steel intranet
* MED Electrical library
* Through various sources on internet
* Members of MED Electrical
* Power Electronics by P.S. Bimbhra

**Thank you**