

Face Mask and Social Distance Detection

This topic consists of social distancing & face mask detection for the events of coronavirus, alleviation in such pandemic can be solved by social distancing as well as putting on its face mask. The Covid-19 had a huge impact on different sectors in many countries and such impact caused problems to many people around the world. This small step of wearing a face mask as well as following social distancing would save lots of lives as the spread of the virus could be mitigated.

STEP 1 : DOWNLOAD THE SOURCE CODE from below button

[Download Source Code](#)

After successful unzip, folder structure will be look like as below

» This PC » New volume (D:) » projects » soure code » face mask+SocialDis V3.0

Name	Date modified	Type	Size
face_detector	15-06-2021 08:36 PM	File folder	
utils	15-06-2021 08:36 PM	File folder	
detect_mask_video	26-01-2021 03:22 AM	PY File	5 KB
haarcascade_frontalface_default	12-11-2020 08:36 PM	XML File	909 KB
main	15-06-2021 08:37 PM	PY File	10 KB
mask_detector.model	27-05-2020 08:31 PM	MODEL File	11,215 KB
new	27-03-2021 05:22 PM	PY File	5 KB
requirement.txt	15-06-2021 11:55 PM	Text Document	3 KB
train_mask_detector	26-01-2021 03:23 AM	PY File	6 KB

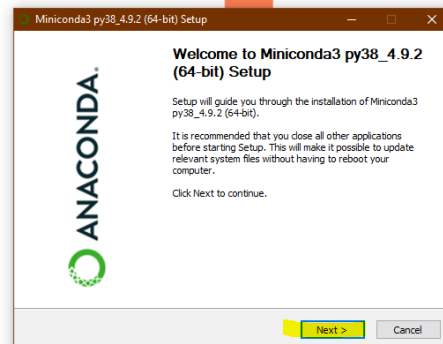
STEP 2 : DOWNLOAD MINICONDA FROM BELOW LINK

[Download Miniconda](#)

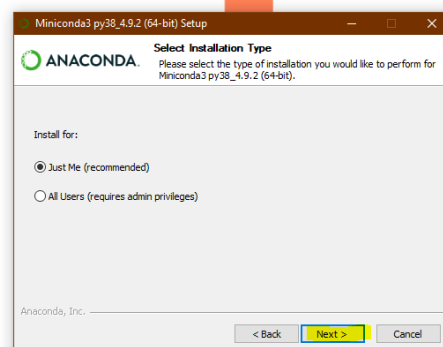
After downloading, double click on setup file and install



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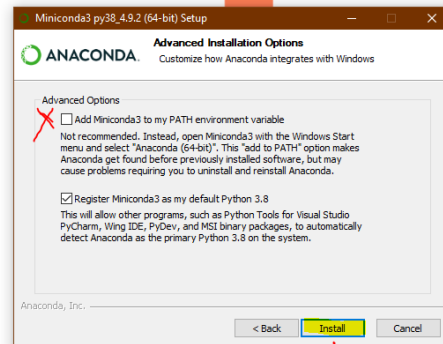
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Do **not** tick the checkbox

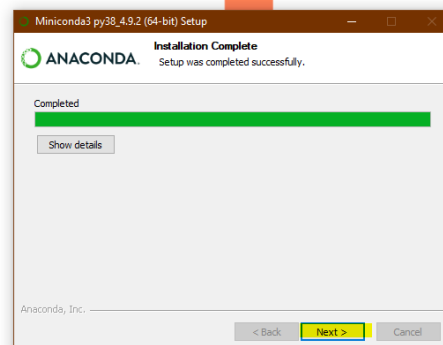
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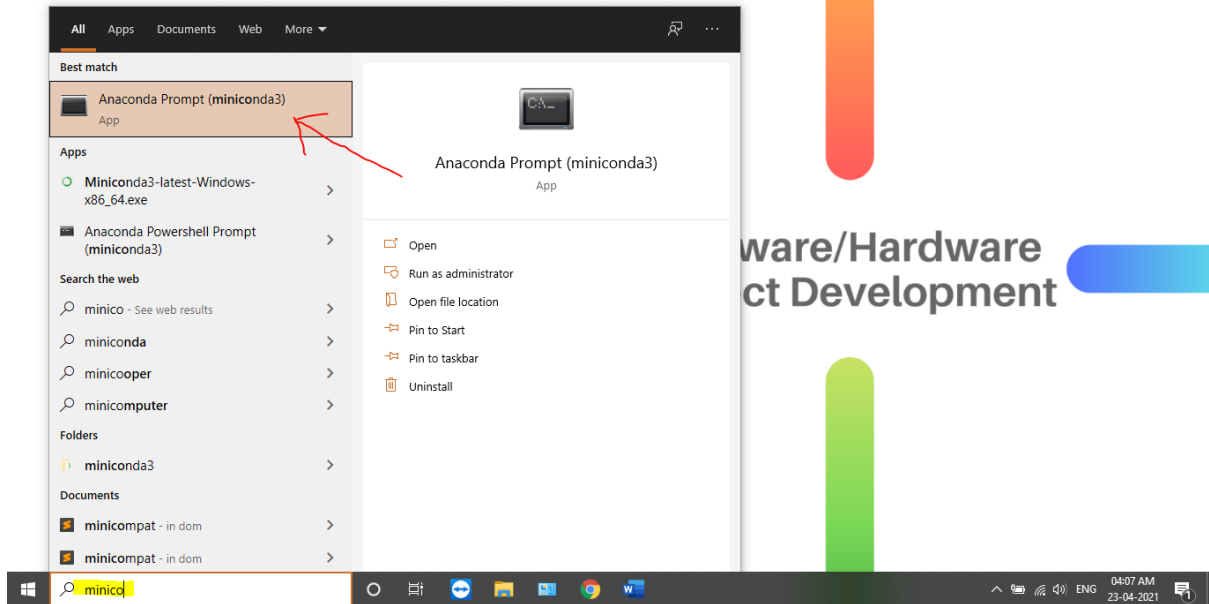


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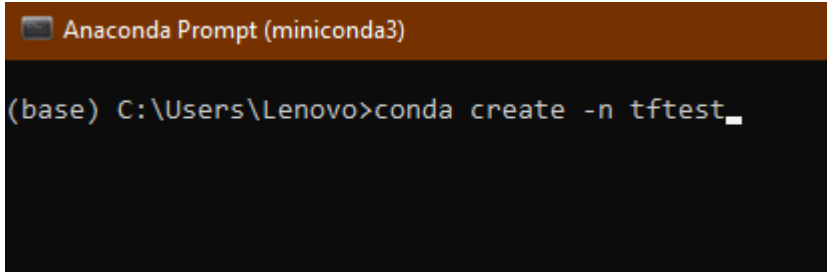


Step 3 : Launch Miniconda/Anaconda PROMPT and Navigate to the project folder



Enter commands one by one as shown below:

```
conda create -n tftest
```

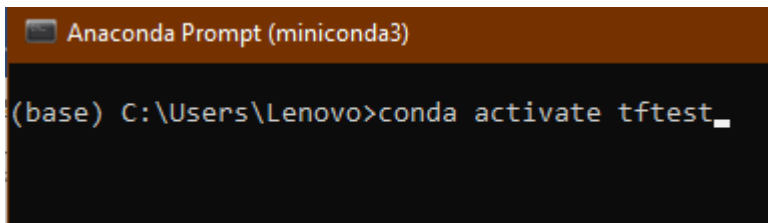


```
Anaconda Prompt (miniconda3)

(base) C:\Users\Lenovo>conda create -n tftest_
```

[after successful creation enter below command]

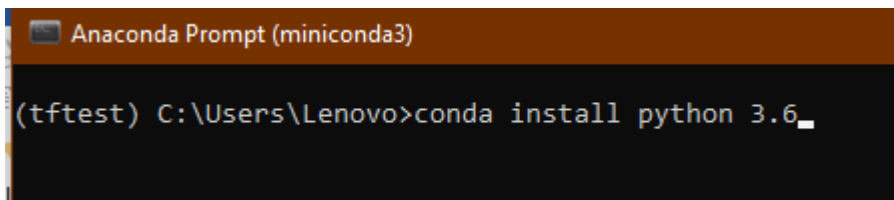
```
conda activate tftest
```



```
Anaconda Prompt (miniconda3)

(base) C:\Users\Lenovo>conda activate tftest_
```

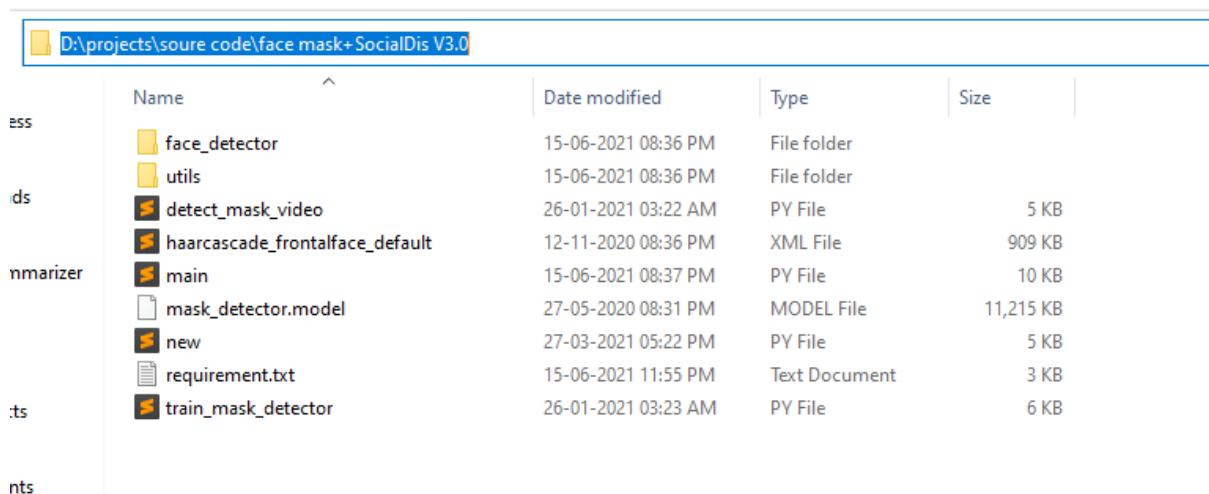
```
conda install python=3.6
```



```
Anaconda Prompt (miniconda3)

(tftest) C:\Users\Lenovo>conda install python 3.6_
```

[after successful installation navigate to project folder and install pip packages]



	Name	Date modified	Type	Size
ess	face_detector	15-06-2021 08:36 PM	File folder	
	utils	15-06-2021 08:36 PM	File folder	
ds	detect_mask_video	26-01-2021 03:22 AM	PY File	5 KB
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	mask_detector.model	27-05-2020 08:31 PM	MODEL File	11,215 KB
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	requirement.txt	15-06-2021 11:55 PM	Text Document	3 KB
ts	train_mask_detector	26-01-2021 03:23 AM	PY File	6 KB
nts				

```
Anaconda Prompt (miniconda3)

(tfptest) C:\Users\Lenovo> D:

(tfptest) D:\>cd D:\projects\soure code\face mask+SocialDis V3.0
(tfptest) D:\projects\soure code\face mask+SocialDis V3.0>_
```

Step 4 : Install Required packages by using below command

```
Anaconda Prompt (miniconda3)

(tfptest) D:\projects\soure code\face mask+SocialDis V3.0>pip install -r requirements.txt_
```

Wait for successful installation, it may take time.

Step 5 : Launch the Actual Application

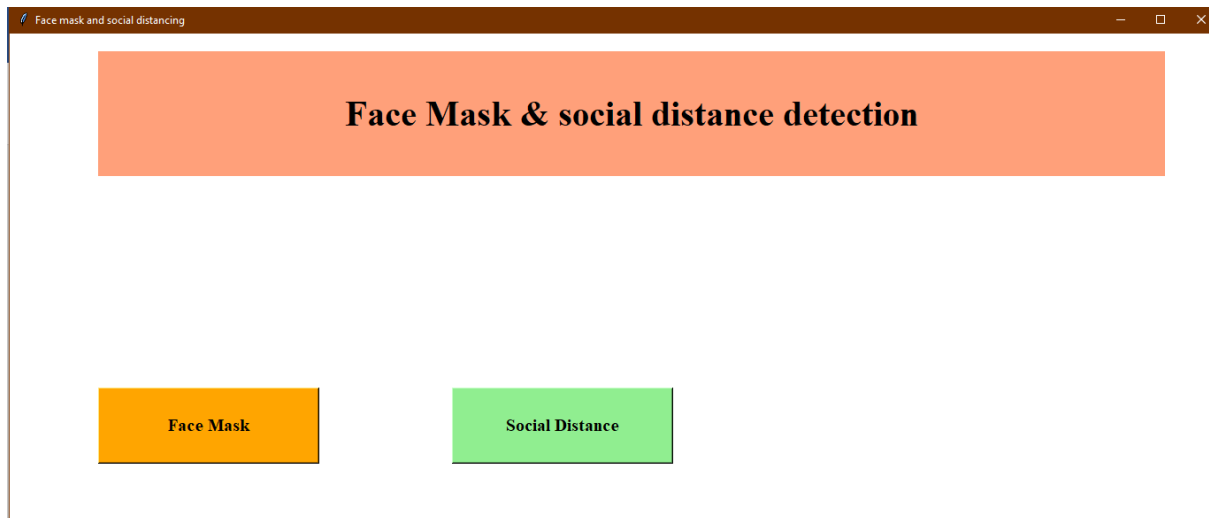
Run command

Python main.py

```
Anaconda Prompt (miniconda3) - python main.py

(tfptest) D:\projects\soure code\face mask+SocialDis V3.0>python main.py
_
```

Python Tkinter UI page will open automatically



Click on Face mask, Camera will open and it will predict the mask and no mask.

Press CTRL + C to close the project window.

Step 6 : To Run Social Distance code

1. Open Miniconda prompt (refer from step 1)
2. Type command **conda activate tfest**
3. Navigate to project folder directory **by using command**
CD ____your__project__path
4. Type command **Python main.py**
5. Again, same GUI will open, this time select social distance

Face Mask & social distance detection

Face Mask

Social Distance



6.