*ReadMe*

# Libraries & Modules

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| * Python 3 * Python Notebook (Jupyter Notebook/ Pycharm) * pip * Opencv --> version= 3.4.9.31 {pip install opencv-python==3.4.9.31} * Flask {pip install flask} * Pygames {pip install pygames} * scipy {pip install scipy } * imutils {pip install imutils} * numpy {pip install numpy} * requests {pip install requests} * flask\_ngrok * tensorflow enabled notebook * from tensorflow.keras.models import model\_from\_json * from keras.preprocessing import image |
| while (doubt)  { run it out;  if (tried) break;  sweat it out;  } |

# Dealing with Code

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| 1. Copy the code to Python notebook.  * ***{Run the Python Notebook on a 15 inch. screen, since the website is calibrated accordingly.}***  1. Download the dataset from here https://www.kaggle.com/deadskull7/fer2013. 2. Then change the directories accordingly.  * ***{lines 431/398/274/273/247/181/132/92/87/82/77/72/67 need to change the destination of the files accordingly.}***  1. After changing the directories, ensure the appropriate file name with the extension is restored at the original position. 2. Then train the model. Then proceed further with the flask app. 3. After doing the necessary changes, compile & run the command.      1. After running the code*, {Running on* [*http://127.0.0.1:5000/*](http://127.0.0.1:5000/)*}* will come as a result. 2. Click on the link & it'll redirect to our homepage. 3. After getting redirected to the homepage, wait for a minute or two. The laptop is loading all the files & compiling the python code. 4. Then you'll be able to navigate through the web-app. From there, you can easily navigate to other tabs. 5. After accessing the static golden ratio detector interactive tab, you'll get redirected to another page. Here you need to enter the image & make sure the image is in the correct directory. 6. Now, moving onto another interactive tab, the Live golden ratio predictor. Upon clicking it, it'll take some time to start up & will open in a new window. 7. Live golden ratio predictor, static golden ratio detector & golden ratio guitar applications can be closed by pressing the "q" key. 8. If you have doubt while chatting to Phi bot, you can say “help” & Phi will help you with questions. |