USER DOCUMENT :

- Celeb a data set is downloaded from kaggle and converted into sketches of dimension 178*218 (not included in this folder)

- The Unet.ipynb file is where unet architecture is defined and the model is defined and training is done for the model for various epochs on 80k images only.(use GPU's for fast training)

- Then after every epoch the model will given a model.h5 file in which updated weights will be there which is used to save model after every epoch which is used in sketch_image_gradio_application

- In sketch_to_image_gradio_application.ipynb the saved model.h5 is called using model library by which we can load a trained model and can use to predict image by giving sketch as input to it. Gradio application is used to create a web user interface.

- Image to sketch gradio application.ipynb is developed with gradio is a web application which will take any image of any dimension and give sketch as output of dimesin 178*218(as model is trained to this dimension) and can download that using the download option.