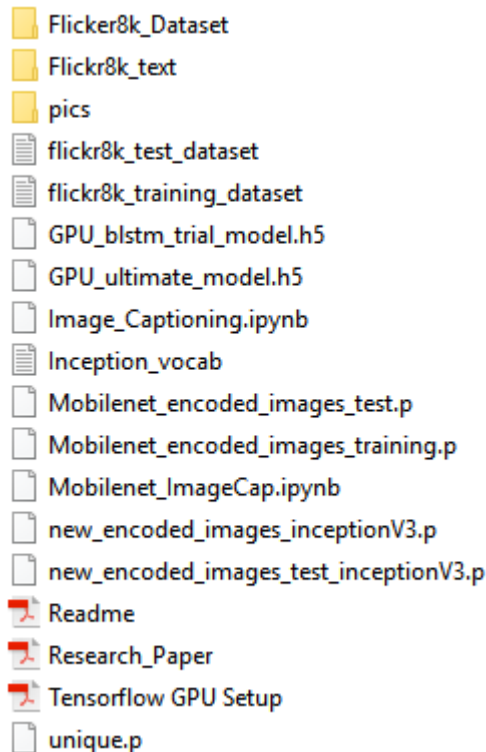


Prerequisites

To be able to run this project, the following dependencies must be satisfied

1. Python version 3.6(Anaconda distribution)
2. Jupyter
3. Python Libraries listed in the next section
4. Machine with a Nvidia GPU(Optional)
5. Download Flickr8K dataset from [here](#). Extract the contents into the project directory so that the structure is as follows:



Required Python Libraries:

- i. Numpy
- ii. Pandas
- iii. SciKit Learn
- iv. Matplotlib
- v. Keras
- vi. Tensorflow/Tensorflow GPU

To set up Tensorflow GPU, follow the steps in the “install_tensorflow_gpu.pdf” file.

There are 2 notebooks for this project.

- i. Image_Captioning.ipynb

This notebook contains preprocessing and model building for InceptionV3 models.

- ii. Mobilenet_ImageCap.ipynb

This notebook contains preprocessing and model building for MobileNet models.