### **CS5542 – Bigdata Analytics and Applications**

#### Lab report – 2

# **Submitted by:**

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### **Objectives:**

The objectives of the Lab assignment 2:

- Generate captions for your own dataset using the Show and Tell model.
- Generate 4 captions for each image. (Beam Search k=4)
- Report your accuracy in BLEU, CIDER, METEOR and ROGUE measures.

### **Technologies:**

Pycharm – IDE for executing the python files

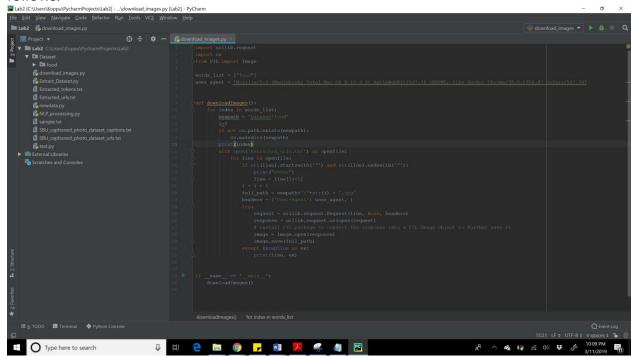
# Packages used:

- nltk
- opency-python
- numpy
- matplotlib
- Tensorflow
- PyRouge
- BLEU score
- Show and tell model
- PIL

# **Extraction of Images from the URL's:**

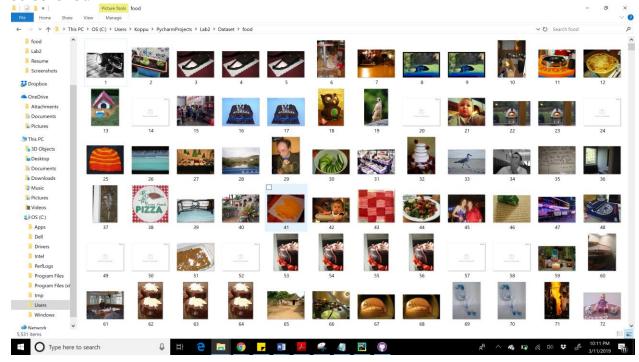
• As our dataset choosen is SBU, we have extracted the images from the URL's. The screenshot is as

#### follows:



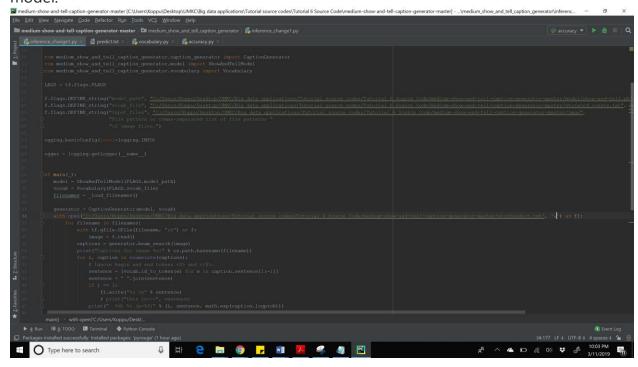
The dataset downloaded



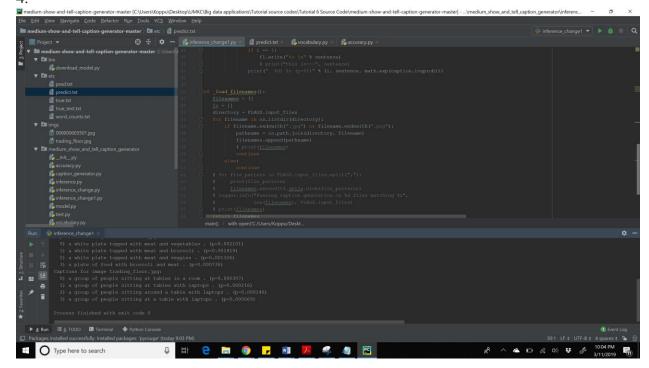


#### **Goals achieved:**

 Captions for the extracted images have been generated using the show and tell model.



For every image four captions are generated by changing the Beam size value to



Calculation of BLEU score and ROGUE measures:

