

CS5542 Big Data Analytics and App

LAB ASSIGNMENT #11

TensorFlow Programming: Write a TensorFlow program for the following Task.

a. Generate captions for your own dataset that is not covered in class tutorial using the model provided.

b. Generate 4 captions for each image. (Beam Search k=4)

here is the image dataset:

the result might be a little bit far from what i expected, anyway we almost there.



here shows the four captions by changing the beam_size:

```
W tensorflow/core/platform/cpu_feature_guard.cc:45] The TensorFlow library wasn't compiled to u
W tensorflow/core/platform/cpu_feature_guard.cc:45] The TensorFlow library wasn't compiled to u
graph loaded
```

```
Captions for image 3165123595.jpg:
```

- 0) a man is bungee jumping into the air . (p=0.002508)
- 1) a man is bungee jumping in the air . (p=0.000644)
- 2) a man is doing a trick in the air . (p=0.000066)
- 3) a man is doing a trick in the air on a bicycle . (p=0.000056)

```
Captions for image 3164328039.jpg:
```

- 0) two dogs are running on the grass . (p=0.003392)
- 1) two white dogs are running on the grass . (p=0.002390)
- 2) a brown and white dog is playing with a ball . (p=0.000127)
- 3) a brown and white dog is running with a tennis ball in its mouth . (p=0.000122)

```
Process finished with exit code 0
```

2.Web based Q and A

a. Develop a web based question and answering system similar to that covered in class.

b. Develop Q & A that is related to your project.

