COMP-SCI 5542 (SP17) - Big Data Analytics and Applications

Tutorial 8 Assignment (Due 03/15/17 by 11:59 PM)

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1. Tensorflow Programming

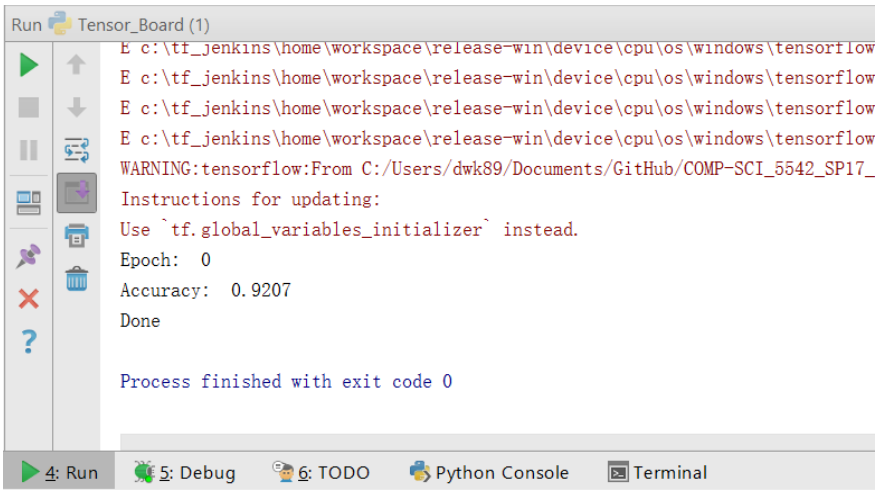
1.1. Description of Dataset

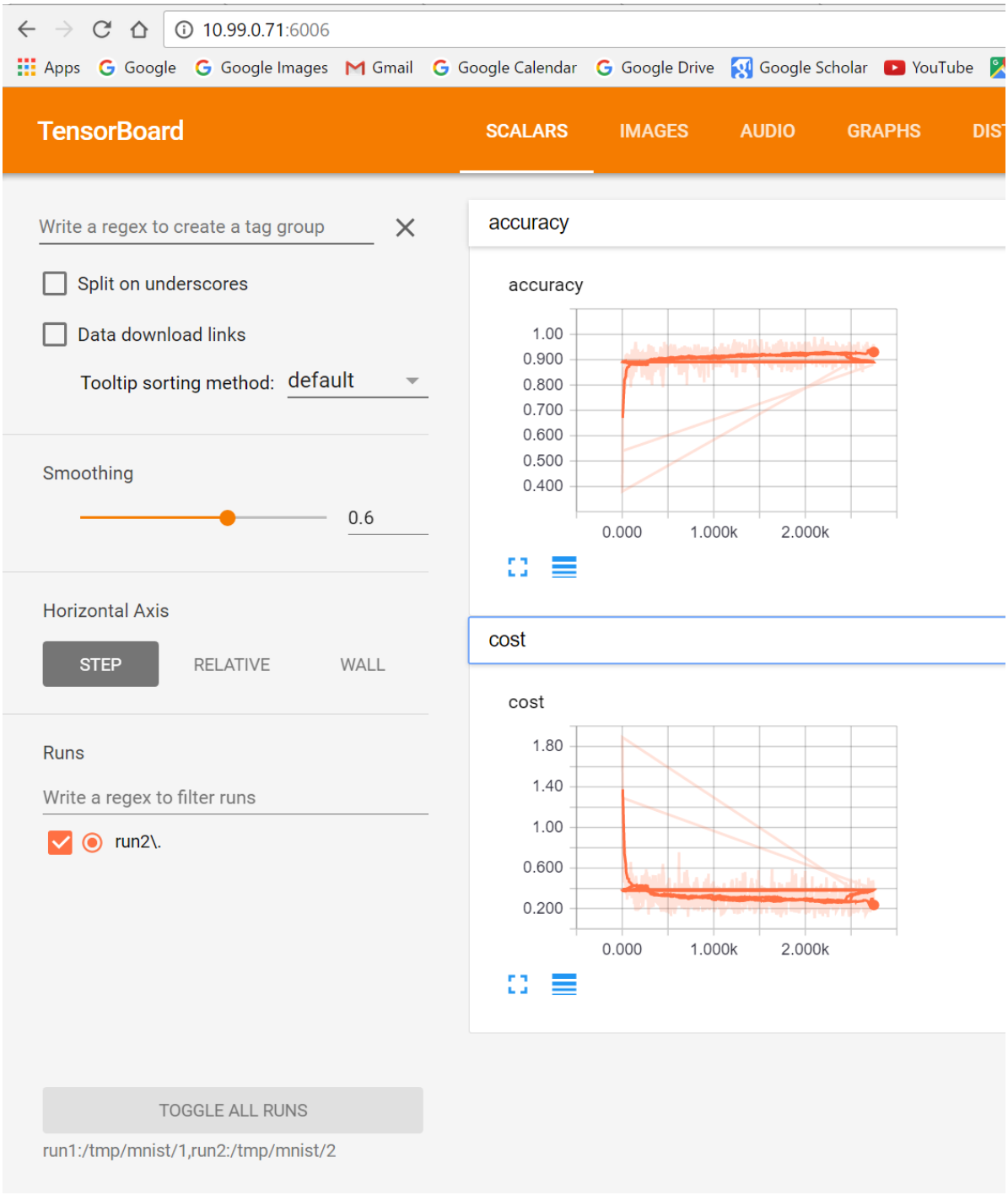
File Range	Class Index	Class Name
`0.jpg` to `19.jpg`	`0`	Joy
`20.jpg` to `39.jpg`	`1`	Sadness
`40.jpg` to `59.jpg`	`2`	Surprise

1.2. Loading the Data

```
# Input my own data.
filenames = [('/data/%d.jpg' % i) for i in range(60)]
filename_queue = tf.train.string_input_producer(filenames)
reader = tf.WholeFileReader()
filename, content = reader.read(filename_queue)
image = tf.image.decode_jpeg(content, channels = 3)
image = tf.cast(image, tf.float32)
resized_image = tf.image.resize_images(image, [32, 32])
input = tf.train.batch(resized_image, batch_size = 8)
fp = open('data/label.txt', 'r')
labels = fp.readlines()
for i in labels:
    i = int(i)
fp.close()
```

1.3. Screenshots of the Results

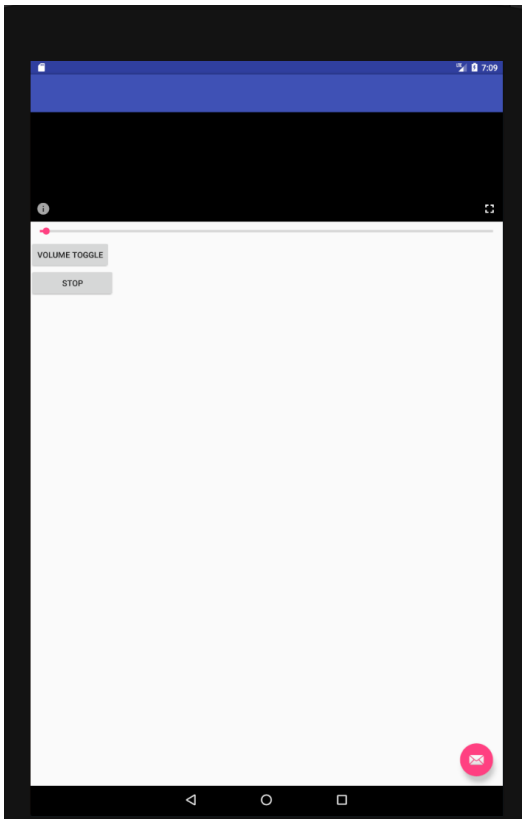
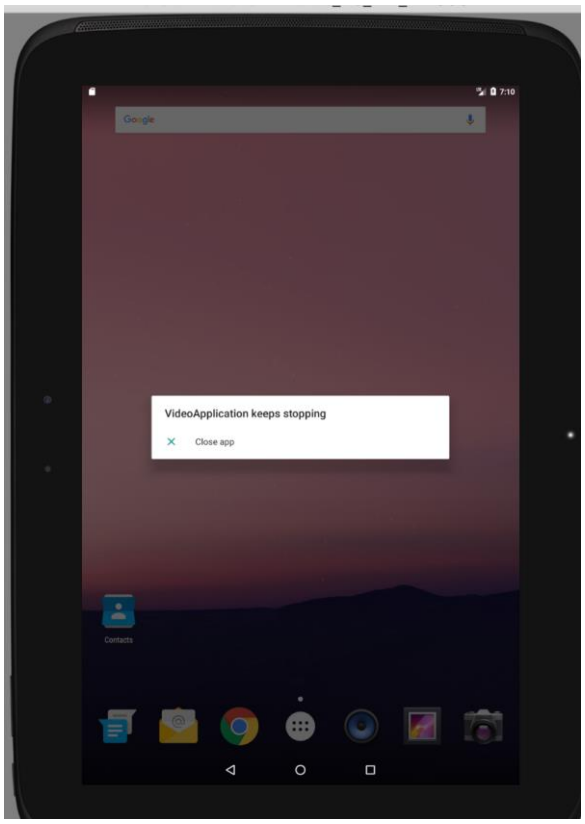



10.99.0.71:6006
Apps
Google
Google Images
Gmail
Google Calendar
Google Drive
Google Scholar
YouTube
TensorBoard
SCALARS
IMAGES
AUDIO
GRAPHS
Write a regex to create a tag group
Split on underscores
Data download links
Tooltip sorting method: default
Smoothing
0.6
Horizontal Axis
STEP
RELATIVE
WALL
Runs
Write a regex to filter runs
run2\.
TOGGLE ALL RUNS
run1:/tmp/mnist/1,run2:/tmp/mnist/2
accuracy
accuracy
1.00
0.900
0.800
0.700
0.600
0.500
0.400
0.000
1.000k
2.000k
cost
cost
1.80
1.40
1.00
0.600
0.200
0.000
1.000k
2.000k

2. Google CardBoard App

Function implemented: **Click to stop the video**.

```
// Shut down the applciation by a single click.
public void stopthevideo() {
    mVrVideoView = (VrVideoView) findViewById(R.id.video_view);
    mSeekBar = (SeekBar) findViewById(R.id.seek_bar);
    mVolumeButton = (Button) findViewById(R.id.btn_stop);
    mVolumeButton.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            onclickstop();
        }
    });
    mVrVideoView.setEventListener(new ActivityEventListener());
    mSeekBar.setOnSeekBarChangeListener(this);
}

public void onclickstop() {
    mVrVideoView.shutdown();
}
```

Screenshots