**CS 4900**

**Individual Mini-Project**

**100 points**

Use Android Studio, to develop an Android application that performs automatic classification of an image that is selected and loaded by the user from the storage memory of the android phone. Please adhere to the following guidelines:

1. You need to design app similar in functionality to the app shown in the following screenshots. For running, you may use a real Android phone or an emulator from Android Studio.
2. Install Android Studio and create a new, Empty Project on it.
3. Design the layout of the app using Android Studio
4. Write relevant code in Android Studio to load and display the image selected by the user in the app. Make sure you provide appropriate permissions for the app to access the storage of the android phone.
5. When the ‘LOAD IMAGE’ button is clicked, your Android Studio code should read in the selected image as a bitmap and display it in the app. Besides, it should randomly select a string from a list of strings and display the string in a textbox.
6. Your code should be checked in on github as well as submitted online on BlazeView. Please give me access to this github project. You should check code in regularly. At least, I should see at least 2 separate commits. On github, I want to see:
   1. The entire project folder for Android Studio
   2. A detailed README.md file telling the user how to run and use your App including Android emulator details.

Github work is 30 points, README.md, having the required code on github and regular check-in.

1. You must write clean code. The code is 35 points
   1. Your MainActivity.java code should be clean, and specify which is the function for which specific button.
2. You will give me an in-class demo of your working project. This is 35 points.
   1. The demos will span over 1 classes in week 6.
   2. I will give you the link to an image on my Google Drive. You need to download it, put it in your emulated Android and run the App. The App should work correctly.
   3. Each demo will take 5 mins.

