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## **Lab Assignment -6**

### **Objective:**

- 1 To write a spark program for object detection problem.
- 2 To write an android application for image classification using spark API
- 3 To write an android application for object detection using clarifai API

### **Technologies Used:**

Android Studio, IntelliJ, Android, Scala, Java, Git

### **Description:**

Here I created my own data sets for each task. My data set for object detection contains 3 categories. By using client server program I connected Android UI to Spark API.

### **Outputs of Task1:**



Fig 1

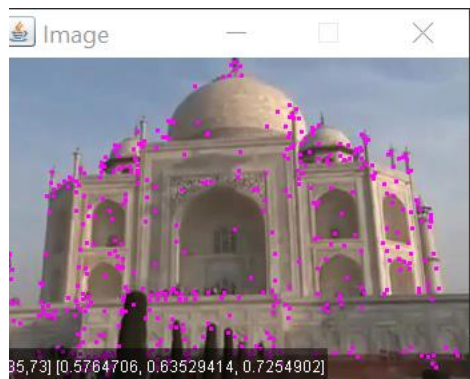


Fig 2

```

*****
Accuracy:0.3333333333333333
Confusion Matrix:
1.0  0.0  0.0
1.0  0.0  0.0
1.0  0.0  0.0

```

Fig 3

## Outputs of Task2:

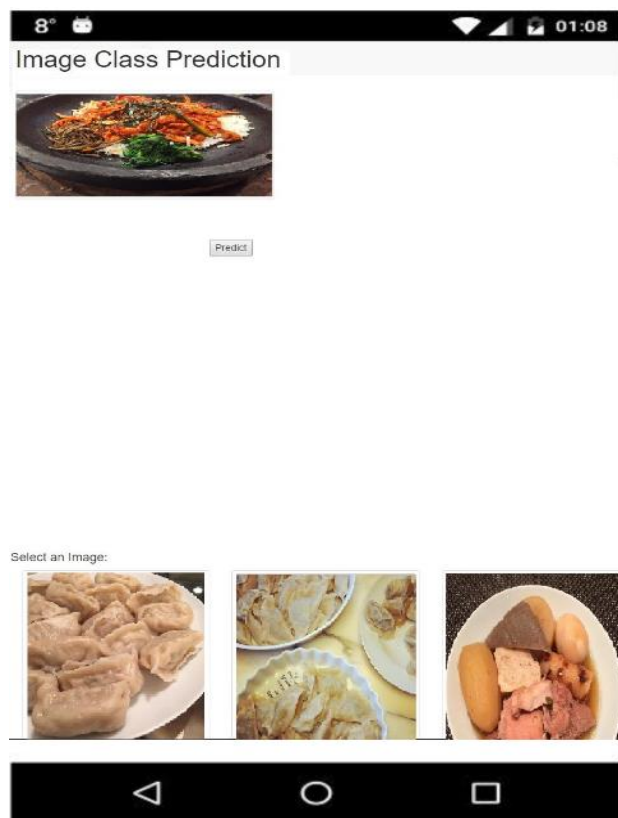


Fig 4

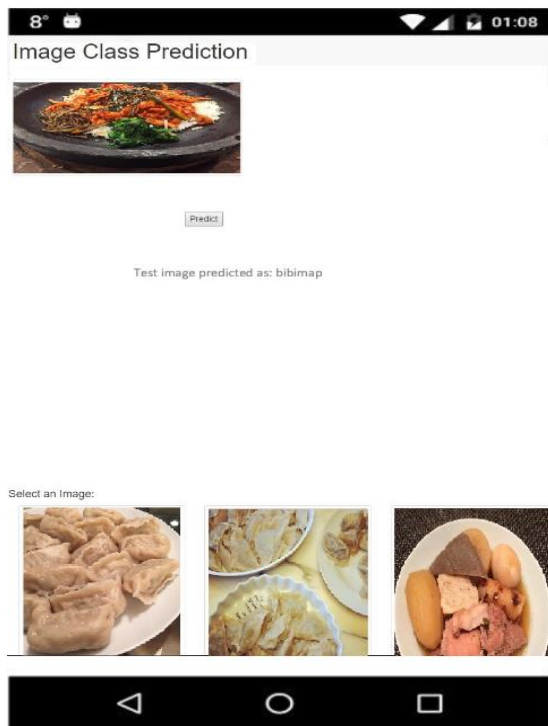


Fig 5

### Output of Task3:



Fig 6

**References:**

- Tutorial 3 Soucre code
- Tutorial 5 Source Code
- Tutorial 6 Source Code