

Report for Lab Assignment 9

1.

QUESTION:

Image collection and sentimental analysis based on the image tags using Instagram streaming (related to your project)

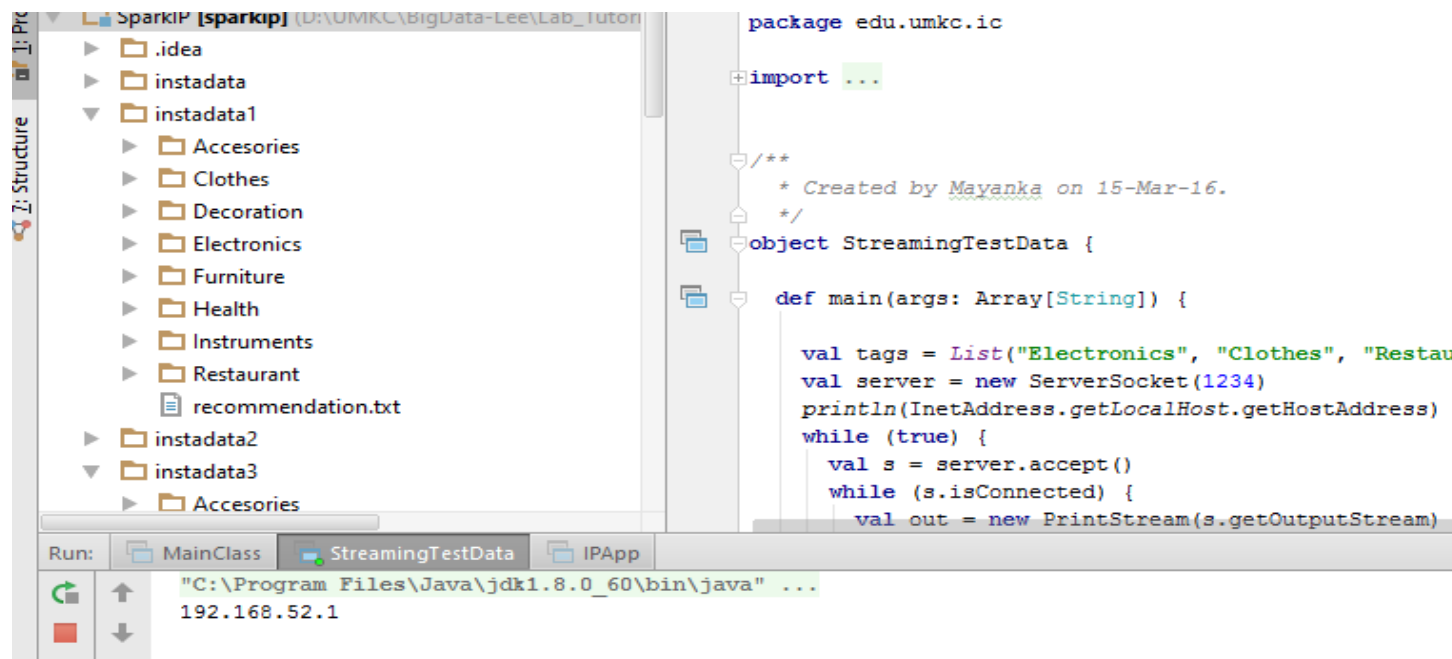
- Training Datasets: Instagram Streaming/Categorized Image (e.g., Static UEC Food Dataset) and meta data
- Testing Datasets e.g., Image, UserGroup, Category, Rating (Instagram streaming)

DESCRIPTION:

Image Collection and sentimental analysis is done based on the image tags #electronics, #furniture #accessories, #Furniture as shown in the screenshots below.

SCREENSHOT:

Testing Data:



Training Data:

```

"pkelese_buddy";"Hope #electronics #chill #sun #niallers";Electronics;1;"https://scontent.cdninstagram.com/t51.2885-15/e15/12424440_160114707346
https://scontent.cdninstagram.com/t51.2885-15/s640x640/sh0.08/e35/917427_639416506212748_447450416_n.jpg?ig_cache_key=MTIxNDY0MzI2NTYyNic1MTYyMw
url is valid

"modmostmusic";"pizza #goodnight #most #Paris #musicproducer #clubbing #music #electro #beatmaker #sampler #Paris #producers #love #kiss #musi
https://scontent.cdninstagram.com/t51.2885-15/s640x640/e15/917542_1083054418422359_294149805_n.jpg?ig_cache_key=MTIxNDY0MTIOMzMyNjIOTQ2OQz3Dz3D
url is valid

"applied_electronics";"Hack does not always mean that you ruin something. Sometimes it means that u take the power way beyond its limit ☐ #SPAR
https://scontent.cdninstagram.com/t51.2885-15/s640x640/sh0.08/e35/12383349_1533803800256246_85437937_n.jpg?ig_cache_key=MTIxNDY0MjU2MTc3MzNzNzA1
url is valid

"kidd_aitm";"#KIDDAITM #recycledart #vintagemagazine #marines #electronics #computer #geek #marinetime #ship #bout #lifeguard #sail #red #matche
https://scontent.cdninstagram.com/t51.2885-15/s480x480/e35/10995079_257970514537134_750291807_n.jpg?ig_cache_key=MTIxNDY0MTQ2NDI5NTM2NzUyMwz3Dz3D
url is valid

"dealsbyron";"iPhone 5 - $150.00 \niPhone 5c - $150.00 \niPhone 5s - $200.00 \niPhone 6 - $200.00 \niPhone 6+ - $225.00 \niPhone 6s - $250.00\ni
https://scontent.cdninstagram.com/t51.2885-15/e15/12905120_1685014211752709_811297736_n.jpg?ig_cache_key=MTIxNDY0MTI4NDgzNDA0MDI1Mwz3Dz3D.2
url is valid

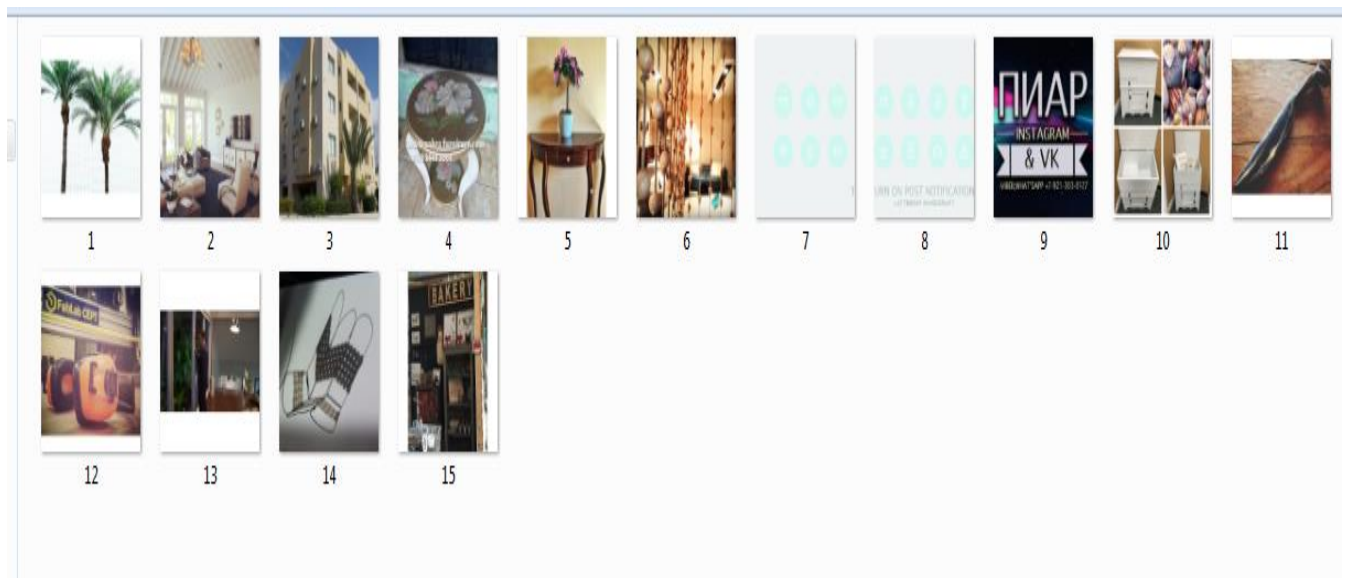
"ymoneybagshawty.barreto";"goal #sneakerholics #light #traveling #electronics #kik";Electronics;1;"https://scontent.cdninstagram.com/t51.2885-15
https://scontent.cdninstagram.com/t51.2885-15/s640x640/sh0.08/e35/12224415_867350900057208_1414230531_n.jpg?ig_cache_key=MTIxNDY0MDQzMDU4MDY2MjE1
url is valid

"nikolbarbieri2";"Apple Store\n#iphone #apple #iphoneonly #InstaTags4Likes #appleiphone #ios #iphone3g #iphone3gs #iphone4 #iphone5 #technology
https://scontent.cdninstagram.com/t51.2885-15/s480x480/e35/12912815_1057599980977907_981357740_n.jpg?ig_cache_key=MTIxNDY0MTA2Njc5NzI3MDQ3NAz3Dz3D
url is valid

{"username":"sofiaviscardi","username":"lorenzozaredpaggi","username":"gliocchidellaviscardi"};"#jafia ☐☐☐\n#\ni loro sorrisi, i loro sguardi ☐

```

Image Collection:



Sentiment Analysis:

```
Project
├── instadata2
│   ├── original
│   ├── train
│   ├── trainSmall
│   ├── recommendation - Copy.txt
│   └── recommendation.txt
├── instadata3
├── instadata4
├── project [sparkip-build] (sources root)
│   ├── project
│   └── target
├── build.properties
└── plugins.txt
```

```
private String toCss(int sentiment) {
    switch (sentiment) {
        case 0:
            return "sentiment : very negative";
        case 1:
            return "sentiment : negative";
        case 2:
            return "sentiment : neutral";
        case 3:
            return "sentiment : positive";
        case 4:
    }
```

```
Run SentimentAnalyzer
Adding annotator ssplit
Adding annotator parse
Adding annotator sentiment
Mar 29, 2016 11:17:14 PM edu.stanford.nlp.process.PTBLexer next
WARNING: Untokenizable: ? (U+D83D, decimal: 55357)
Adding annotator tokenize
TweetWithSentiment [line="ayur_efulkin";"Shamballa bracelet \n\nFor all questions - Direct Messages or Fb \n#ayurefulkin \n#efulkishamballa \n#handmade #handmadewit
Adding annotator ssplit
Adding annotator parse
Adding annotator sentiment
Mar 29, 2016 11:17:15 PM edu.stanford.nlp.process.PTBLexer next
WARNING: Untokenizable: ? (U+D83D, decimal: 55357)
TweetWithSentiment [line="#fashionblogger #ootd #roses #hydrangea";accessories;1;"https://scontent.cdninstagram.com/t51.2885-15/s320x320/e35/12328505_139225856472328_1132801519_
{"username":"chloeandisabel","username":"oldnavy","username":"blondeamazonjewelry","username":"blondeamazonjewelry"};"Tuesdays graphic tee brought to you by @oldnavy \n#blondea
Process finished with exit code 0
```

2.

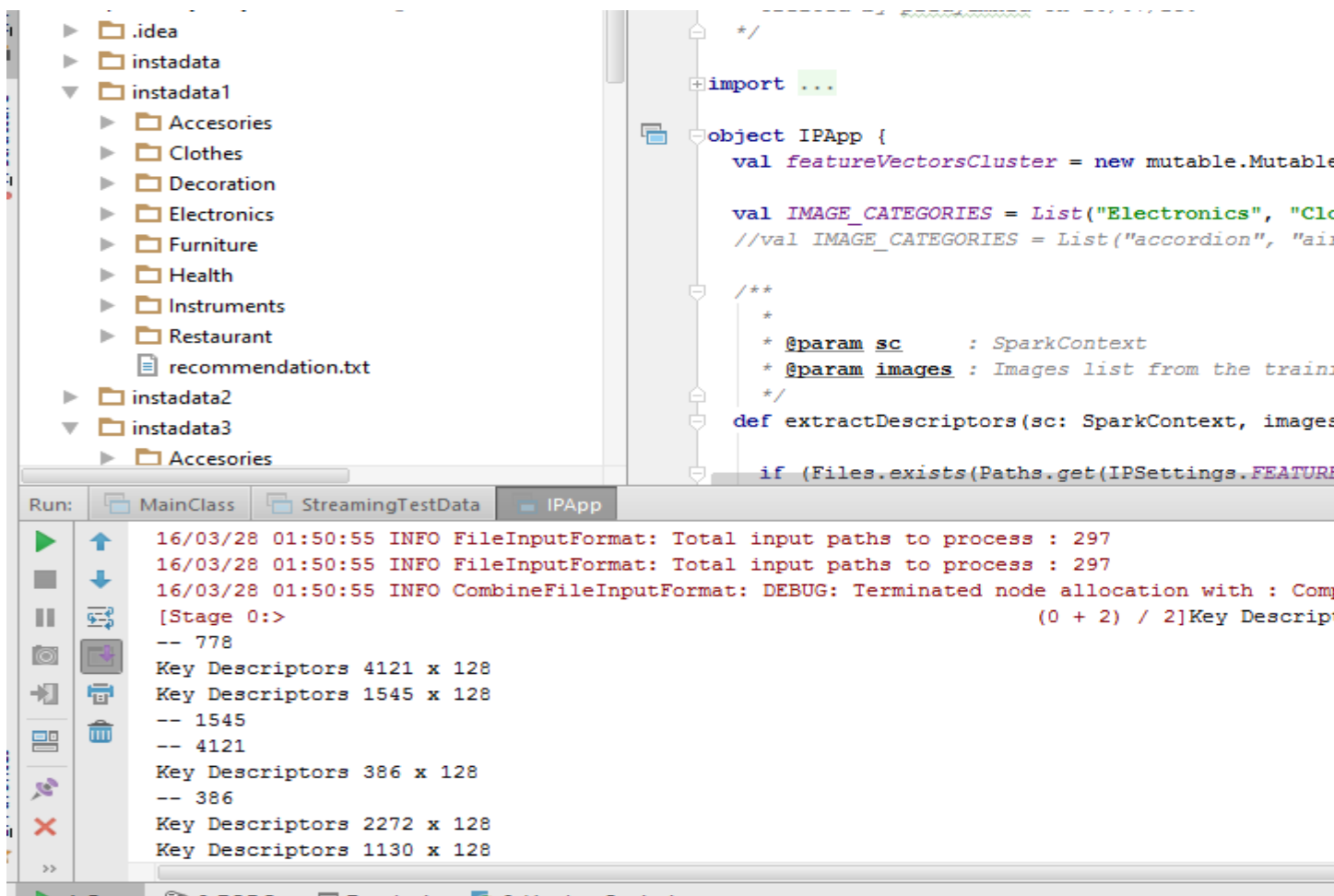
QUESTION:

Image Classification based on the categories related to your project

DESCRIPTION:

Categories are divided according the type of object it is like electronics, furniture, named boards and all which are used in shopping malls.

SCREENSHOTS:

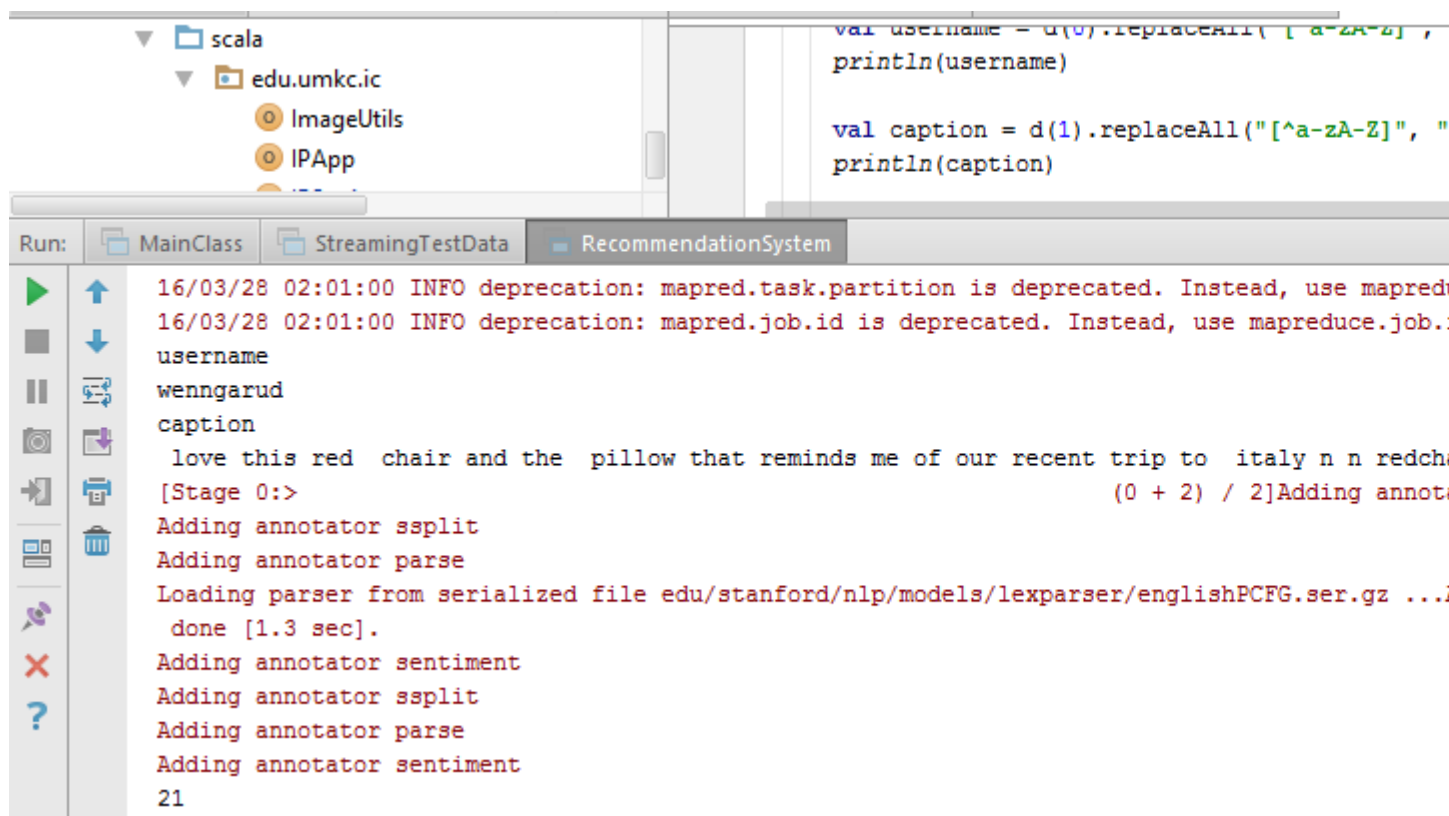


3.

QUESTION:

Image-based Recommendation system (related to your own project) a. The rating based on sentiment analysis of Instagram metadata b. Expected outcome is to make a recommendation based on user image input or profile (e.g., preferences, location, gender, age)

SCREENSHOTS:



The screenshot shows an IDE with a Scala project structure on the left, a code editor in the center, and a console window at the bottom. The project structure includes a 'scala' package with a sub-package 'edu.umkc.ic' containing 'ImageUtils' and 'IPApp'. The code editor shows two lines of Scala code: `val username = d(0).replaceAll("[^a-zA-Z]", "")` and `println(username)`, followed by `val caption = d(1).replaceAll("[^a-zA-Z]", "")` and `println(caption)`. The console window shows the output of the program, including deprecation warnings, the username 'wenngarud', the caption 'love this red chair and the pillow that reminds me of our recent trip to italy n n redch', and the stage output '[Stage 0:> (0 + 2) / 2]Adding annotator ssplit', 'Adding annotator parse', 'Loading parser from serialized file edu/stanford/nlp/models/lexparser/englishPCFG.ser.gz ... done [1.3 sec].', 'Adding annotator sentiment', 'Adding annotator ssplit', 'Adding annotator parse', 'Adding annotator sentiment', and the final output '21'.

```
scala
└─ edu.umkc.ic
   └─ ImageUtils
      └─ IPApp

Run: MainClass StreamingTestData RecommendationSystem

16/03/28 02:01:00 INFO deprecation: mapred.task.partition is deprecated. Instead, use mapred
16/03/28 02:01:00 INFO deprecation: mapred.job.id is deprecated. Instead, use mapreduce.job.
username
wenngarud
caption
love this red chair and the pillow that reminds me of our recent trip to italy n n redch
[Stage 0:> (0 + 2) / 2]Adding annotator ssplit
Adding annotator parse
Loading parser from serialized file edu/stanford/nlp/models/lexparser/englishPCFG.ser.gz ...
done [1.3 sec].
Adding annotator sentiment
Adding annotator ssplit
Adding annotator parse
Adding annotator sentiment
21
```

4.

QUESTION:

Instagram trend notification to smartphone/smartwatch.

SCREENSHOTS:

