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[Step 1] Detecting Languages from text

[Step 1.1] Modify code

install iso-639

Write a script to recognize different languages and return the message in designated format.

```
comprehend.py X
2022s2 > cits5503 > labs > lab9 > 🕏 comprehend.py > 🥎 main
       import boto3
       import argparse
       from iso639 import languages
       client = boto3.client('comprehend')
       def parse_args():
            parser = argparse.ArgumentParser(description="arg parser")
            parser.add_argument("-i", "--text", default=None, type=str)
            return parser.parse_args()
       def main():
            args = parse_args()
            if not args.text:
  16
            return
            response = client.detect_dominant_language(
                Text=args.text
            language = languages.get(alpha2=response['Languages'][0]['LanguageCode']).name
            confidence = str(int(response['Languages'][0]['Score'] * 100))
            print(language+" detected with "+confidence+ "%"+ " confidence")
        if __name__ == "__main__":
            main()
                     TERMINAL
moebuta@Lenovo-MoeBuTa:~/2022s2/cits5503/labs/lab9$ python3 comprehend.py -i "The French Revolution was a period of social an double of political upheaval in France and its colonies beginning in 1789 and ending in 1799"
English detected with 99% confidence
 moeputa@Lenovo-moeвu।a:~/z0zzsz/cits5503/labs/lab9$ ▮
```

[Step 1.2] Test code with other languages

Spanish:

```
• moebuta@Lenovo-MoeBuTa:~/2022s2/cits5503/labs/lab9$ python3 comprehend.py -i "El Quijote es la obra más conocida de Miguel de Cervantes Saavedra. Publicada su primera parte con el título de El ingenioso hidalgo don Quijote de la Mancha a comienzos de 1605, es una de las obras más destacadas de la literatura española y la literatura universal, y una de las más traducidas. En 1615 aparecería la segunda parte del Quijote de Cervantes con el título de El ingenioso caballero don Quijote de la Mancha.
Spanish detected with 99% confidence
O moebuta@Lenovo-MoeBuTa:~/2022s2/cits5503/labs/lab9$
```

French:

```
• moebuta@Lenovo-MoeBuTa:~/2022s2/cits5503/labs/lab9$ python3 comprehend.py -i "Moi je n'étais rien Et voilà qu'aujourd'hui Je suis le gardien Du sommeil de ses nuits Je l'aime à mourir Vous pouvez détruire Tout ce qu'il vous plaira Elle n'a qu'à ouvri r l'espace de ses hras Pour tout reconstruire Pour tout reconstruire Je l'aime à mourir"

French detected with 99% confidence

moebuta@Lenovo-MoebuTa.~/2022s2/cits3503/labs/lab9$
```

Italian:

[Step 2] Sentiment Analysis

Use boto3 and AWS comprehend to create a python script for sentiment analysis.

```
sentiment.py X
     import boto3
      from iso639 import languages
      client = boto3.client('comprehend')
      english = "The French Revolution was a period of social and political upheaval in France and its colonies beginnin
      spanish = "El Quijote es la obra más conocida de Miguel de Cervantes Saavedra. Publicada su primera parte con el 1
      french = "Moi je n'étais rien Et voilà qu'aujourd'hui Je suis le gardien Du sommeil de ses nuits Je l'aime à mouri
      italian = "L'amor che move il sole e l'altre stelle."
      def sentiment_analysis(text):
          lan_response = client.detect_dominant_language(
              Text=text
          code = lan_response['Languages'][0]['LanguageCode']
         language = languages.get(alpha2=code).name
          sen_reponse = client.detect_sentiment(Text=text, LanguageCode = code)
          sentiment = sen_reponse['Sentiment']
          print("The sentiment of the %s text is %s" % (language, sentiment))
      sentiment_analysis(english)
      sentiment_analysis(spanish)
      sentiment_analysis(french)
      sentiment_analysis(italian)
PROBLEMS OUTPUT TERMINAL
                            JUPYTER DEBUG CONSOLE
moebuta@Lenovo-MoeBuTa:~/2022s2/cits5503/labs/lab9$ python3 sentiment.py
The sentiment of the English text is NEUTRAL
The sentiment of the Spanish text is NEUTRAL
The sentiment of the French text is NEGATIVE
The sentiment of the Italian text is POSITIVE
 oebuta@Lenovo-MoeBuTa:~/2022s2/cits5503/labs/lab9$
```

[Step 3] Repeat steps from [Step 2] for detecting entities.

python script:

```
entity.py X ekeyphrase.py
sentiment.py
2022s2 > cits5503 > labs > lab9 > 💠 entity.py > ...
      import boto3
      from iso639 import languages
       client = boto3.client('comprehend')
       english = "The French Revolution was a period of social and political upheaval in
       spanish = "El Quijote es la obra más conocida de Miguel de Cervantes Saavedra. Pu
       french = "Moi je n'étais rien Et voilà qu'aujourd'hui Je suis le gardien Du somme
       italian = "L'amor che move il sole e l'altre stelle."
 12
       def entity_detection(text):
           lan_response = client.detect_dominant_language(
               Text=text
           code = lan_response['Languages'][0]['LanguageCode']
 17
           language = languages.get(alpha2=code).name
           ent_reponse = client.detect_entities(Text=text, LanguageCode = code)
           entities = ent_reponse['Entities']
           if not entities:
               print('There is no entity in the %s text'%language)
 21
 22
           print("The entities in the %s text are:" % language)
           for ent in entities:
              print(ent['Text'] + ' is ' + ent['Type'])
           print()
 26
 27
       entity_detection(english)
       entity_detection(spanish)
       entity_detection(french)
       entity_detection(italian)
```

```
moebuta@Lenovo-MoeBuTa:~/2022s2/cits5503/labs/lab9$ python3 entity.py
 The entities in the English text are:
 French Revolution is EVENT
 France is LOCATION
 1789 is DATE
 1799 is DATE
The entities in the Spanish text are:
El Quijote is TITLE
Miguel de Cervantes Saavedra is PERSON
 primera parte is QUANTITY
 El ingenioso hidalgo don Quijote de la Mancha is TITLE
 1605 is DATE
una is QUANTITY
 española is OTHER
 una de las más traducidas is QUANTITY
 1615 is DATE
segunda parte is QUANTITY
Quijote de Cervantes is TITLE
 El ingenioso caballero don Quijote de la Mancha is TITLE
The entities in the French text are:
 aujourd'hui is DATE
Tout ce qu'il is QUANTITY
tout is QUANTITY
tout is QUANTITY
There is no entity in the Italian text
🗅 moebuta@Lenovo-MoeBuTa:~/2022s2/cits5503/labs/lab9$ 🛛
```

[Step 4] Repeat steps from [Step 2] for detecting keyphrases.

python script:

```
entity.py
                                 keyphrase.py X
sentiment.py
2022s2 > cits5503 > labs > lab9 > ♦ keyphrase.py > ♦ keyphrase_detection
      import boto3
      from iso639 import languages
      client = boto3.client('comprehend')
      english = "The French Revolution was a period of social and political upheaval in France an
      spanish = "El Quijote es la obra más conocida de Miguel de Cervantes Saavedra. Publicada su
      french = "Moi je n'étais rien Et voilà qu'aujourd'hui Je suis le gardien Du sommeil de ses
      italian = "L'amor che move il sole e l'altre stelle."
      def keyphrase_detection(text):
           lan_response = client.detect_dominant_language(
 12
               Text=text
          code = lan_response['Languages'][0]['LanguageCode']
          language = languages.get(alpha2=code).name
          ph_reponse = client.detect_key_phrases(Text=text, LanguageCode = code)
          phs = ph_reponse['KeyPhrases']
 18
          if not phs:
               print('There is no key phrase in the %s text'%language)
               return
          print("The key phrases in the %s text are:" % language)
           for ph in phs:
             print(ph['Text'])
          print()
      keyphrase_detection(english)
      keyphrase_detection(spanish)
      keyphrase_detection(french)
      keyphrase_detection(italian)
```

```
moebuta@Lenovo-MoeBuTa:~/2022s2/cits5503/labs/lab9$ python3 keyphrase.py
The key phrases in the English text are:
The French Revolution
a period
social and political upheaval
France
its colonies
1789
1799
The key phrases in the Spanish text are:
El Quijote
la obra
más conocida
Miguel de Cervantes Saavedra
su primera parte
el título
El ingenioso hidalgo don Quijote de la Mancha
comienzos
1605
las obras
más destacadas
la literatura española
la literatura universal
las más traducidas
la segunda parte
Quijote de Cervantes
el título
ingenioso caballero don Quijote de la Mancha
The key phrases in the French text are:
Moi
je
n'étais rien
aujourd'hui
Je suis le gardien Du sommeil de ses nuits
Je
1'
Vous
Tout ce
qu'
il
vous
Elle
L'espace de ses bras
tout
tout
Je
1'
The key phrases in the Italian text are:
L'amor
che
il sole
l'altre stelle
```

[Step 5] Repeat steps from [Step 2] for detecting syntax.

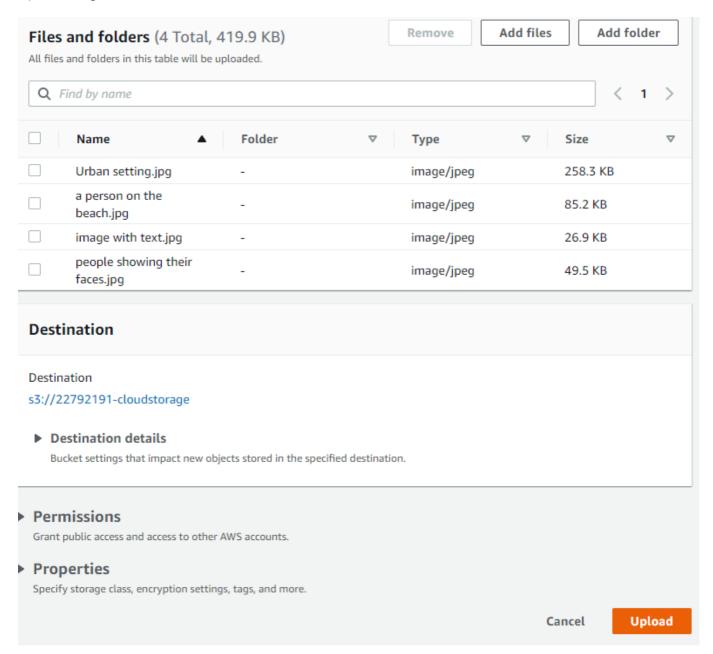
python script:

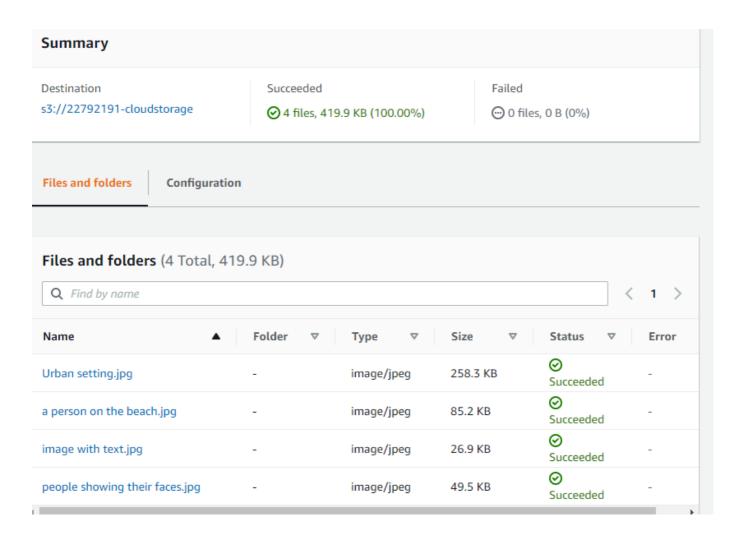
```
entity.py
                                 keyphrase.py
                                                   syntax.py X
2022s2 > cits5503 > labs > lab9 > ♦ syntax.py > ♦ syntax_detection
      import boto3
      from iso639 import languages
      client = boto3.client('comprehend')
      english = "The French Revolution was a period of social and political upheaval in France and its
      spanish = "El Quijote es la obra más conocida de Miguel de Cervantes Saavedra. Publicada su prim
      french = "Moi je n'étais rien Et voilà qu'aujourd'hui Je suis le gardien Du sommeil de ses nuits
      italian = "L'amor che move il sole e l'altre stelle."
      def syntax_detection(text):
          lan_response = client.detect_dominant_language(
              Text=text
          code = lan_response['Languages'][0]['LanguageCode']
          language = languages.get(alpha2=code).name
          syn_reponse = client.detect_syntax(Text=text, LanguageCode = code)
          syntax = syn_reponse['SyntaxTokens']
          print("The syntax in the %s text are:" % language)
          output = ''
 21
           for syn in syntax:
             output += syn['Text'] +' is '+ syn['PartOfSpeech']['Tag'] + '\t'
 23
          print(output)
          print()
       syntax_detection(english)
       syntax_detection(spanish)
      syntax detection(french)
      syntax_detection(italian)
 30
```

```
noebuta@Lenovo-MoeBuTa:~/2022s2/cits5503/labs/lab9$ python3 syntax.py
The syntax in the English text are:
                                                                                    a is DET period is NOUN of 1s ADP
is ADP France is PROPN and is CONJ its is PRON
is ADP 1799
                 French is PROPN Revolution is PROPN
                                                                                                                                                  social is ADJ
The is DET
                                                                   was is VERB
                                                upheaval is NOUN in is ADP France is PROPN and is CONJ its
in is ADP 1789 is NUM and is CONJ ending is VERB in is ADP
 and is CONJ
                     political is ADJ
                                                                                                                                                             colo
                                                                                                                                                      1799 is NU
nies is NOUN
                       beginning is VERB
      . is PUNCT
The syntax in the Spanish text are:
                                                                                       obra is NOUN más is ADV
El is DET Quijote is PROPN
                                               es is VERB
                                                                    la is DET
                                                                                                                              conocida is ADJ de is ADP
                                                                               ra is PROPN . is PUNCT Publicada is VERB
título is NOUN de is ADP El is DET inger
 Miguel is PROPN de is ADP
                                        Cervantes is PROPN
                                                                      Saavedra is PROPN
                                                          el is DET
    primera is ADJ parte is NOUN con is ADP
                                                                                                                         El is DET ingenioso is ADJ hi
                                                                                                                                             comienzos is PRO
dalgo is NOUN don is PROPN Quijote is PROPN PN de is ADP 1605 is NUM , is PL
                                                                de is ADP
                                                                                    la is DET
                                                                                                         Mancha is PROPN a is ADP
                                              , is PUNCT
                                                                                       una is PRON
                                                                   es is VERB
                                                                                                         de is ADP las is DET
                                                                                                                                                obras is NOUN
 más is ADV destacadas is ADJ
S DET literatura is NOUN
                                                                                         literatura is NOUN española is ADJ y is CCONJ
                                                  de is ADP
                                                                     la is DET
                                                                                                                                                             la i
                                                                                          y is CCONJ una is PRON de is ADP las
1615 is NUM aparecería is VERB la is DET
                                                                       , is PUNCT
En is ADP
                                                                                                                                                    las is DET
s DET
                                        universal is ADJ
más is ADV traducidas is ADJ . is PUNCT
segunda is ADJ parte is NOUN del is ADP Quijote i
DET título is NOUN de is ADP El is DET
                                                         Quijote is PROPN de is ADP
s DET ingenioso is ADJ ca
                                                                                                         Cervantes is PROPN
                                                                                                                                      con is ADP
                                                                                                                                                          el is
                                                                                                                               don is PROPN
                                                                                                  caballero is NOUN
                                                                                                                                                  Quijote is P
              de is ADP
                                                    Mancha is PROPN . is PUNCT
ROPN
                                  la is DET
The syntax in the French text are:
Moi is PRON je is PRON n' is ADV
                                                          étais is AUX rien is PRON
                                                                                               Et is CCONJ
                                                                                                                     voilà is VERB qu' is SCONJ aujourd
             / Je is PRON suis is AUX le is DET gardien is NOUN Du is ADP
nuits is NOUN Je is PRON l' is PRON aime is VERB à is ADP
uire is VERB Tout is DET ce is PRON qu' is PRON il is PRON
'hui is ADV
                                                                                                                       sommeil is NOUN de is ADP
                                                                                                             mourir is VERB Vous is PRON pouvez is
is DET
AUX détruire is VERB Tout is DET ce is PRON qu'is PRON il is PRON vous is PRON plaira is VERB Elle is PRON n'is ADV a is VERB qu'is ADV à is ADP ouvrir is VERB L'is DET espace is NOUN de is ADP ses is DET bras is NOUN Pour is ADP tout is PRON reconstruire is VERB Pour is ADP tout is PRON reconstruire is VERB Je is PRON l'is PRON aime is VERB à is ADP mourir is VERB
The syntax in the Italian text are:
                  amor is NOUN che is PRON
                                                          move is VERB
                                                                              il is DET
                                                                                                 sole is NOUN
                                                                                                                     e is CCONJ
                                                                                                                                         1' is DET
                                                                                                                                                          altre i
s ADJ stelle is NOUN . is PUNCT
```

[Step 6] In an S3 bucket add some images to test algorithms.

Upload images to the bucket via AWS console





[Step 7] Create scripts using boto3 and rekognition to test label recognition, image moderation, facial analysis and extracting text from images.

Label recongnition:

```
label.py
           X
                                    d facial.py
2022s2 > cits5503 > labs > lab9 > 💠 label.py > ...
       import boto3
       client = boto3.client('rekognition')
       imgs=[
                'S30bject': {
                    'Bucket': '22792191-cloudstorage',
                    'Name': 'Urban setting.jpg'
 12
                'S30bject': {
                    'Bucket': '22792191-cloudstorage',
 13
 14
                    'Name': 'a person on the beach.jpg'
               },
           },
 17
               'S30bject': {
                    'Bucket': '22792191-cloudstorage',
                    'Name': 'image with text.jpg'
               },
           },
               'S30bject': {
                    'Bucket': '22792191-cloudstorage',
                    'Name': 'people showing their faces.jpg'
               },
           },
       def label_detection(img):
           response = client.detect_labels(Image=img, MaxLabels=3, MinConfidence=0.95)
           print('label detection for %s:' % img['S30bject']['Name'])
           print(response['Labels'])
           print()
       label_detection(imgs[0])
       label_detection(imgs[1])
       label_detection(imgs[2])
 40
       label_detection(imgs[3])
```

Image moderation:

```
extraction.py
                  moderation.py X
2022s2 > cits5503 > labs > lab9 > 🏺 moderation.py > ...
      import boto3
      from chardet import detect
      client = boto3.client('rekognition')
      imgs=[
               'S30bject': {
                    'Bucket': '22792191-cloudstorage',
                   'Name': 'Urban setting.jpg'
               },
 11
           },
 12
               'S3Object': {
 13
                    'Bucket': '22792191-cloudstorage',
 15
                   'Name': 'a person on the beach.jpg'
               },
           },
 17
               'S3Object': {
                    'Bucket': '22792191-cloudstorage',
                   'Name': 'image with text.jpg'
 21
 22
               },
 23
           },
               'S30bject': {
                    'Bucket': '22792191-cloudstorage',
                    'Name': 'people showing their faces.jpg'
 27
               },
           },
      def img_moderation(img):
           response = client.detect_moderation_labels(Image=img)
           print('image moderation for %s:' % img['S30bject']['Name'])
           print(response['ModerationLabels'])
           print()
      img_moderation(imgs[0])
      img_moderation(imgs[1])
      img_moderation(imgs[2])
      img_moderation(imgs[3])
 42
```

```
PROBLEMS OUTPUT TERMINAL JUPYTER DEBUG CONSOLE

moebuta@Lenovo-MoeBuTa:~/2022s2/cits5503/labs/lab9$ python3 moderation.py image moderation for Urban setting.jpg:
[]

image moderation for a person on the beach.jpg:
[{'Confidence': 86.2708969116211, 'Name': 'Suggestive', 'ParentName': ''}, {'Confidence': 86.2708969116211, 'Name': 'Barecheste d Male', 'ParentName': 'Suggestive'}]

image moderation for image with text.jpg:
[]

image moderation for people showing their faces.jpg:
[]
```

Facial analysis:

```
label.py
                moderation.py
                                   facial.py
                                               ×
2022s2 > cits5503 > labs > lab9 > 🕏 facial.py > ...
       import boto3
       client = boto3.client('rekognition')
       imgs=[
                'S3Object': {
                    'Bucket': '22792191-cloudstorage',
                    'Name': 'Urban setting.jpg'
               },
 11
               'S30bject': {
 12
 13
                    'Bucket': '22792191-cloudstorage',
                   'Name': 'a person on the beach.jpg'
               },
           },
               'S30bject': {
                    'Bucket': '22792191-cloudstorage',
                    'Name': 'image with text.jpg'
 21
 22
           },
 23
               'S30bject': {
                    'Bucket': '22792191-cloudstorage',
                    'Name': 'people showing their faces.jpg'
               },
       def facial_analysis(img):
           response = client.detect_faces(Image=img)
           print('facial analysis for %s:' % img['S3Object']['Name'])
           print(response['FaceDetails'])
           print()
       facial_analysis(imgs[0])
       facial_analysis(imgs[1])
       facial_analysis(imgs[2])
       facial_analysis(imgs[3])
```

```
momebuta@Lenovo-MoeBuTa:~/2022s2/cits5503/labs/lab9$ python3 facial.py
facial analysis for Urban setting.jpg:
[]

facial analysis for a person on the beach.jpg:
[('BoundingBox': ('Width': 0.04054493084549904, 'Height': 0.07278057932853699, 'Left': 0.5491769909858704, 'Top': 0.20082081854
343414), 'Landmarks': [{'Type': 'eyeLeft', 'X: 0.5622652173042297, 'Y: 0.22948366585689813], {'Type': 'eyeRight', 'X': 0.5760
547518739164, 'Y': 0.22828168507576], {'Type': 'mouthLeft', 'X': 0.555036842002869, 'Y': 0.24419769644737244), {'Type': 'mouth Right', 'X': 0.5670392513275146, 'Y': 0.25970884823799133}, {'Type': 'nose', 'X: 0.5631179809570312, 'Y': 0.2294585108757019]
], 'Pose': {'Roll': 18.016693115234375, 'Yaw': -21.995115280151367, 'Pitch': 24.85446548461914}, 'Quality': {'Brightness': 86.1
6284942626953, 'Sharpness': 12.848764419555664}, 'Confidence': 99.86874389648438}]

facial analysis for image with text.jpg:
[[]

facial analysis for people showing their faces.jpg:
[{'BoundingBox': {'Width': 0.1466192603111267, 'Height': 0.27660509943962097, 'Left': 0.49111127853393555, 'Top': 0.16193114221
09664}, 'Landmarks': [{'Type': 'eyeLeft', 'X': 0.5263110995292664, 'Y': 0.349425608769226}, {'Type': 'eyeRight', 'X': 0.58020
80631256104, 'Y': 0.27094435691833496}, {'Type': 'mouthLeft', 'X': 0.559456229511261, 'Y': 0.387216238975225}, {'Type': 'mouth
Right', 'X': 0.6047527194023132, 'Y': 0.35767896563131714), {'Type': 'nose', 'X': 0.5633824467658997, 'Y': 0.349610209465802686}
], 'Pose': {'Roll': -26.257678985595703, 'Yaw': -12.550137519836426, 'Pitch': -7.0442376136779785}, 'Quality': {'Brightness': 9
9, 'Height': 0.26064708828926086, 'Left': 0.31655120849609375, 'Top': 0.31921509280955), 'Landmarks': [{'Type': 'eyeLeft', 'X': 0.35631240825879, 'EyeLeft', 'X': 0.3501338, 'Y': 0.4316659988868164), 'Type': 'eyeRight', 'X': 0.369509609364694492,
'Y': 0.4326851236621338, 'Y': 0.4316659988868164), 'Y': 0.31655120849699375, 'Top': 0.31921509280955), 'Landmarks': [{'Type': 'eyeLeft', 'X': 0.35612338, 'Y': 0.43886598868164), '
```

```
extraction.py X
2022s2 > cits5503 > labs > lab9 > ♠ extraction.py > ...
       import boto3
       client = boto3.client('rekognition')
       imgs=[
                'S30bject': {
                    'Bucket': '22792191-cloudstorage',
                    'Name': 'Urban setting.jpg'
               },
 10
           },
 11
                'S30bject': {
 12
                    'Bucket': '22792191-cloudstorage',
 13
 14
                    'Name': 'a person on the beach.jpg'
 15
               },
 16
           },
 17
 18
                'S30bject': {
                    'Bucket': '22792191-cloudstorage',
 19
                    'Name': 'image with text.jpg'
 20
 21
               },
 22
           },
 23
                'S30bject': {
 24
 25
                    'Bucket': '22792191-cloudstorage',
                    'Name': 'people showing their faces.jpg'
 26
 27
               },
 28
           },
 29
 31
 32
       def text extraction(img):
           response = client.detect_text(Image=img)
           print('text extraction for %s:' % img['S30bject']['Name'])
 34
           print(response['TextDetections'])
 36
           print()
 37
 38
       text_extraction(imgs[0])
       text_extraction(imgs[1])
       text_extraction(imgs[2])
 40
       text_extraction(imgs[3])
 41
```

moebuta@Lenovo-MoeBuTa:~/2022s2/cits5503/labs/labs\$ python3 extraction.py
text extraction for Urban setting.jpg:
[1]

text extraction for a person on the beach ing:

[[Temperations : Nations | Page | Line | Line | A confidence : in Journal | Confidence : in Jour

text extraction for image turn tr. 19g: [[DetectedFort: 'COME SAIL AMEV', 'Type: 'LINE', 'Id': 0, 'Confidence': 99.825439453125, 'Geometry': [BoundingBox': ('Width': 0.5847085118293762, 'Height': 0.2822022306019098, 'Left': 0.3421342372894287, 'Top': 0.339339345691803804, [X': 0.950826895141602, 'Y': 0.339339345695380806, [X': 0.968626895141602, 'Y': 0.339339345695380806, [X': 0.968966474865644, 'Height': 0.9691091919919967651367, 'Left': 0.3421342372894287, 'Y': 0.339339337469696970806, 'Rollygon': [[X': 0.3421342372894287, 'Y': 0.339339374699510664, 'Rollygon': [X': 0.3421342372894287, 'Y': 0.339339375499510664, 'Rollygon': [X': 0.342134272894287, 'Y': 0.339339375499510664, 'Rollygon': [X

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text extraction for people showing their faces.jp