wrangle_act

November 9, 2022

1 Project: Wrangling and Analyze Data

1.1 Data Gathering

In the cell below, gather **all** three pieces of data for this project and load them in the notebook. **Note:** the methods required to gather each data are different. 1. Directly download the WeRate-Dogs Twitter archive data (twitter_archive_enhanced.csv)

```
In [88]: import pandas as pd
         import numpy as np
         import requests
         import os
         import tweepy
         from tweepy import OAuthHandler
         import json
         from timeit import default_timer as timer
         import warnings
         warnings.filterwarnings('ignore')
         import seaborn as sb
         import matplotlib.pyplot as plt
         %matplotlib inline
In [89]: #Read the csv file into the dataframe
         df_tweet= pd.read_csv('twitter-archive-enhanced.csv')
In [90]: list(df_tweet)
Out[90]: ['tweet_id',
          'in_reply_to_status_id',
          'in_reply_to_user_id',
          'timestamp',
          'source',
          'text',
          'retweeted_status_id',
          'retweeted_status_user_id',
          'retweeted_status_timestamp',
          'expanded_urls',
          'rating_numerator',
```

```
'rating_denominator',
'name',
'doggo',
'floofer',
'pupper',
'puppo']
```

2. Use the Requests library to download the tweet image prediction (image_predictions.tsv)

```
In [91]: #this is the folder where the file for image_predictions.tsv will be downloaded
         url = 'https://d17h27t6h515a5.cloudfront.net/topher/2017/August/599fd2ad_image-predicti
         response = requests.get(url)
         response
Out[91]: <Response [200]>
In [92]: with open('image-prediction.tsv', 'wb') as file:
             file.write(response.content)
In [93]: #To read the image predictions table into a dataframe
         image = pd.read_csv('image-predictions.tsv', sep='\t')
In [94]: os.listdir()
Out[94]: ['image-prediction.tsv',
          'twitter-archive-enhanced.csv',
          'image',
          'act_report.ipynb',
          'tweet_json.txt',
          'image-predictions.tsv',
          '.ipynb_checkpoints',
          'wrangle_report.ipynb',
          'wrangle_act.ipynb']
```

3. Use the Tweepy library to query additional data via the Twitter API (tweet_json.txt)

```
In [9]: # Query Twitter API for each tweet in the Twitter archive and save JSON in a text file
    # These are hidden to comply with Twitter's API terms and conditions
    consumer_key = 'HIDDEN'
    consumer_secret = 'HIDDEN'
    access_token = 'HIDDEN'
    access_secret = 'HIDDEN'
    auth = OAuthHandler(consumer_key, consumer_secret)
    auth.set_access_token(access_token, access_secret)

api = tweepy.API(auth, wait_on_rate_limit=True)

# Tweet IDs for which to gather additional data via Twitter's API
    tweet_ids = df_tweet.tweet_id.values
```

```
len(tweet ids)
        # Query Twitter's API for JSON data for each tweet ID in the Twitter archive
        count = 0
        fails_dict = {}
        start = timer()
        # Save each tweet's returned JSON as a new line in a .txt file
        with open('tweet_json.txt', 'w') as outfile:
            # This loop will likely take 20-30 minutes to run because of Twitter's rate limit
            for tweet_id in tweet_ids:
                count += 1
                print(str(count) + ": " + str(tweet_id))
                    tweet = api.get_status(tweet_id, tweet_mode='extended')
                    print("Success")
                    json.dump(tweet._json, outfile)
                    outfile.write('\n')
                except tweepy.TweepError as e:
                    print("Fail")
                    fails_dict[tweet_id] = e
        end = timer()
        print(end - start)
        print(fails_dict)
1: 892420643555336193
Success
2: 892177421306343426
Success
3: 891815181378084864
Success
4: 891689557279858688
Success
5: 891327558926688256
Success
6: 891087950875897856
Success
7: 890971913173991426
Success
8: 890729181411237888
Success
9: 890609185150312448
Success
10: 890240255349198849
Success
11: 890006608113172480
Success
12: 889880896479866881
```

13: 889665388333682689

Success

14: 889638837579907072

Success

15: 889531135344209921

Success

16: 889278841981685760

Success

17: 888917238123831296

Success

18: 888804989199671297

Success

19: 888554962724278272

Success

20: 888202515573088257

Fail

21: 888078434458587136

Success

22: 887705289381826560

Success

23: 887517139158093824

Success

24: 887473957103951883

Success

25: 887343217045368832

Success

26: 887101392804085760

Success

27: 886983233522544640

Success

28: 886736880519319552

Success

29: 886680336477933568

Success

30: 886366144734445568

Success

31: 886267009285017600

Success

32: 886258384151887873

Success

33: 886054160059072513

Success

34: 885984800019947520

Success

35: 885528943205470208

Success

37: 885311592912609280

Success

38: 885167619883638784

Success

39: 884925521741709313

Success

40: 884876753390489601

Success

41: 884562892145688576

Success

42: 884441805382717440

Success

43: 884247878851493888

Success

44: 884162670584377345

Success

45: 883838122936631299

Success

46: 883482846933004288

Success

47: 883360690899218434

Success

48: 883117836046086144

Success

49: 882992080364220416

Success

50: 882762694511734784

Success

51: 882627270321602560

Success

52: 882268110199369728

Success

53: 882045870035918850

Success

54: 881906580714921986

Success

55: 881666595344535552

Success

56: 881633300179243008

Success

57: 881536004380872706

Success

58: 881268444196462592

Success

59: 880935762899988482

Success

61: 880465832366813184

Success

62: 880221127280381952

Success

63: 880095782870896641

Success

64: 879862464715927552

Success

65: 879674319642796034

Success

66: 879492040517615616

Success

67: 879415818425184262

Success

68: 879376492567855104

Success

69: 879130579576475649

Success

70: 879050749262655488

Success

71: 879008229531029506

Success

72: 878776093423087618

Success

73: 878604707211726852

Success

74: 878404777348136964

Success

75: 878316110768087041

Success

76: 878281511006478336

Success

77: 878057613040115712

Success

78: 877736472329191424

Success

79: 877611172832227328

Success

80: 877556246731214848

Success

81: 877316821321428993

Success

82: 877201837425926144

Success

83: 876838120628539392

Success

85: 876484053909872640

Success

86: 876120275196170240

Success

87: 875747767867523072

Success

88: 875144289856114688

Success

89: 875097192612077568

Success

90: 875021211251597312

Success

91: 874680097055178752

Success

92: 874434818259525634

Success

93: 874296783580663808

Success

94: 874057562936811520

Success

95: 874012996292530176

Success

96: 873697596434513921

Fail

97: 873580283840344065

Success

98: 873337748698140672

Success

99: 873213775632977920

Success

100: 872967104147763200

Success

101: 872820683541237760

Success

102: 872668790621863937

Fail

103: 872620804844003328

Success

104: 872486979161796608

Success

105: 872261713294495745

Fail

106: 872122724285648897

Success

107: 871879754684805121

Success

109: 871515927908634625

Success

110: 871166179821445120

Success

111: 871102520638267392

Success

112: 871032628920680449

Success

113: 870804317367881728

Success

114: 870726314365509632

Success

115: 870656317836468226

Success

116: 870374049280663552

Success

117: 870308999962521604

Success

118: 870063196459192321

Success

119: 869988702071779329

Fail

120: 869772420881756160

Success

121: 869702957897576449

Success

122: 869596645499047938

Success

123: 869227993411051520

Success

124: 868880397819494401

Success

125: 868639477480148993

Success

126: 868622495443632128

Success

127: 868552278524837888

Success

128: 867900495410671616

Success

129: 867774946302451713

Success

130: 867421006826221569

Success

131: 867072653475098625

Success

133: 866816280283807744

Fail

134: 866720684873056260

Success

135: 866686824827068416

Success

136: 866450705531457537

Success

137: 866334964761202691

Success

138: 866094527597207552

Success

139: 865718153858494464

Success

140: 865359393868664832

Success

141: 865006731092295680

Success

142: 864873206498414592

Success

143: 864279568663928832

Success

144: 864197398364647424

Success

145: 863907417377173506

Success

146: 863553081350529029

Success

147: 863471782782697472

Success

148: 863432100342583297

Success

149: 863427515083354112

Success

150: 863079547188785154

Success

151: 863062471531167744

Success

152: 862831371563274240

Success

153: 862722525377298433

Success

154: 862457590147678208

Success

155: 862096992088072192

Success

Fail

157: 861383897657036800

Success

158: 861288531465048066

Success

159: 861005113778896900

Success

160: 860981674716409858

Success

161: 860924035999428608

Success

162: 860563773140209665

Success

163: 860524505164394496

Success

164: 860276583193509888

Success

165: 860184849394610176

Success

166: 860177593139703809

Success

167: 859924526012018688

Success

168: 859851578198683649

Success

169: 859607811541651456

Success

170: 859196978902773760

Success

171: 859074603037188101

Success

172: 858860390427611136

Success

173: 858843525470990336

Success

174: 858471635011153920

Success

175: 858107933456039936

Success

176: 857989990357356544

Success

177: 857746408056729600

Success

178: 857393404942143489

Success

179: 857263160327368704

Success

181: 857062103051644929

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182: 857029823797047296

Success

183: 856602993587888130

Fail

184: 856543823941562368

Success

185: 856526610513747968

Success

186: 856330835276025856

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187: 856288084350160898

Success

188: 856282028240666624

Success

189: 855862651834028034

Success

190: 855860136149123072

Success

191: 855857698524602368

Success

192: 855851453814013952

Success

193: 855818117272018944

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194: 855459453768019968

Success

195: 855245323840757760

Success

196: 855138241867124737

Success

197: 854732716440526848

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198: 854482394044301312

Success

199: 854365224396361728

Success

200: 854120357044912130

Success

201: 854010172552949760

Success

202: 853760880890318849

Success

203: 853639147608842240

Success

205: 852936405516943360

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206: 852912242202992640

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207: 852672615818899456

Success

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209: 852311364735569921

Success

210: 852226086759018497

Success

211: 852189679701164033

Success

212: 851953902622658560

Fail

213: 851861385021730816

Fail

214: 851591660324737024

Success

215: 851464819735769094

Success

216: 851224888060895234

Success

217: 850753642995093505

Success

218: 850380195714523136

Success

219: 850333567704068097

Success

220: 850145622816686080

Success

221: 850019790995546112

Success

222: 849776966551130114

Success

223: 849668094696017920

Success

224: 849412302885593088

Success

225: 849336543269576704

Success

226: 849051919805034497

Success

227: 848690551926992896

Success

229: 848213670039564288

Success

230: 848212111729840128

Success

231: 847978865427394560

Success

232: 847971574464610304

Success

233: 847962785489326080

Success

234: 847842811428974592

Success

235: 847617282490613760

Success

236: 847606175596138505

Success

237: 847251039262605312

Success

238: 847157206088847362

Success

239: 847116187444137987

Success

240: 846874817362120707

Success

241: 846514051647705089

Success

242: 846505985330044928

Success

243: 846153765933735936

Success

244: 846139713627017216

Success

245: 846042936437604353

Success

246: 845812042753855489

Success

247: 845677943972139009

Success

248: 845459076796616705

Fail

249: 845397057150107648

Success

250: 845306882940190720

Success

251: 845098359547420673

Success

253: 844973813909606400

Success

254: 844704788403113984

Fail

255: 844580511645339650

Success

256: 844223788422217728

Success

257: 843981021012017153

Success

258: 843856843873095681

Success

259: 843604394117681152

Success

260: 843235543001513987

Success

261: 842892208864923648

Fail

262: 842846295480000512

Success

263: 842765311967449089

Success

264: 842535590457499648

Success

265: 842163532590374912

Success

266: 842115215311396866

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267: 841833993020538882

Success

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Success

269: 841439858740625411

Success

270: 841320156043304961

Success

271: 841314665196081154

Success

272: 841077006473256960

Success

273: 840761248237133825

Success

274: 840728873075638272

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275: 840698636975636481

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277: 840632337062862849

Success

278: 840370681858686976

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279: 840268004936019968

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280: 839990271299457024

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281: 839549326359670784

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282: 839290600511926273

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283: 839239871831150596

Success

284: 838952994649550848

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285: 838921590096166913

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286: 838916489579200512

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287: 838831947270979586

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288: 838561493054533637

Success

289: 838476387338051585

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290: 838201503651401729

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291: 838150277551247360

Success

292: 838085839343206401

Success

293: 838083903487373313

Success

294: 837820167694528512

Success

295: 837482249356513284

Success

296: 837471256429613056

Success

297: 837366284874571778

Fail

298: 837110210464448512

Success

299: 837012587749474308

Fail

301: 836753516572119041

Success

302: 836677758902222849

Success

303: 836648853927522308

Success

304: 836397794269200385

Success

305: 836380477523124226

Success

306: 836260088725786625

Success

307: 836001077879255040

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309: 835574547218894849

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310: 835536468978302976

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311: 835309094223372289

Success

312: 835297930240217089

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313: 835264098648616962

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314: 835246439529840640

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315: 835172783151792128

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316: 835152434251116546

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317: 834931633769889797

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318: 834786237630337024

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319: 834574053763584002

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330: 833479644947025920

Success

331: 833124694597443584

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332: 832998151111966721

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333: 832769181346996225

Success

334: 832757312314028032

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335: 832682457690300417

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336: 832645525019123713

Success

337: 832636094638288896

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338: 832397543355072512

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339: 832369877331693569

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340: 832273440279240704

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341: 832215909146226688

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342: 832215726631055365

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343: 832088576586297345

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344: 832040443403784192

Success

345: 832032802820481025

Success

346: 831939777352105988

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347: 831926988323639298

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349: 831670449226514432

Success

350: 831650051525054464

Success

351: 831552930092285952

Success

352: 831322785565769729

Success

353: 831315979191906304

Success

354: 831309418084069378

Success

355: 831262627380748289

Success

356: 830956169170665475

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358: 830173239259324417

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359: 830097400375152640

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361: 829861396166877184

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362: 829501995190984704

Success

363: 829449946868879360

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364: 829374341691346946

Fail

365: 829141528400556032

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366: 829011960981237760

Success

367: 828801551087042563

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368: 828770345708580865

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369: 828708714936930305

Success

370: 828650029636317184

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371: 828409743546925057

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373: 828381636999917570

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374: 828376505180889089

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375: 828372645993398273

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376: 828361771580813312

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377: 828046555563323392

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378: 828011680017821696

Success

379: 827933404142436356

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380: 827653905312006145

Success

381: 827600520311402496

Success

382: 827324948884643840

Success

383: 827228250799742977

Fail

384: 827199976799354881

Success

385: 826958653328592898

Success

386: 826848821049180160

Success

387: 826615380357632002

Success

388: 826598799820865537

Success

389: 826598365270007810

Success

390: 826476773533745153

Success

391: 826240494070030336

Success

392: 826204788643753985

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393: 826115272272650244

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394: 825876512159186944

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395: 825829644528148480

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397: 825147591692263424

Success

398: 825120256414846976

Success

399: 825026590719483904

Success

400: 824796380199809024

Success

401: 824775126675836928

Success

402: 824663926340194305

Success

403: 824325613288833024

Success

404: 824297048279236611

Success

405: 824025158776213504

Success

406: 823939628516474880

Success

407: 823719002937630720

Success

408: 823699002998870016

Success

409: 823581115634085888

Success

410: 823333489516937216

Success

411: 823322678127919110

Success

412: 823269594223824897

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413: 822975315408461824

Success

414: 822872901745569793

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415: 822859134160621569

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417: 822610361945911296

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418: 822489057087389700

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424: 821765923262631936

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425: 821522889702862852

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426: 821421320206483457

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446: 819227688460238848

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Success

454: 818588835076603904

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455: 818536468981415936

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456: 818307523543449600

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457: 818259473185828864

Success

458: 818145370475810820

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459: 817908911860748288

Success

460: 817827839487737858

Success

461: 817777686764523521

Success

462: 817536400337801217

Success

463: 817502432452313088

Success

464: 817423860136083457

Success

465: 817415592588222464

Success

466: 817181837579653120

Success

467: 817171292965273600

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469: 817056546584727552

Success

470: 816829038950027264

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471: 816816676327063552

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472: 816697700272001025

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473: 816450570814898180

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474: 816336735214911488

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475: 816091915477250048

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476: 816062466425819140

Success

477: 816014286006976512

Success

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Success

479: 815966073409433600

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