```
In [ ]: | ###necessary libaries###
        import numpy as np
        import pandas as pd
        import seaborn as sns
        import glob
        import os
        from datetime import datetime
        import matplotlib.pyplot as plt
        import re
        # file where csv files lies
        path = r'C:\Users\victo\Master_Thesis\merging_data\volkswagen\minutely\merged_files
        all files = glob.glob(os.path.join(path, "*.csv"))
        # read files to pandas frame
        list_of_files = []
        for filename in all files:
            list_of_files.append(pd.read_csv(filename,
                                              sep=',',
        # Concatenate all content of files into one DataFrames
        concatenate dataframe = pd.concat(list of files,
                                           ignore index=True,
                                           axis=0,
        # print(concatenate dataframe)
        # calculating correlation price vs semantics
        new df price = concatenate_dataframe[['return_one_hot_encoded',
                                                'flair sentiment header score',
                                                'flair sentiment content score',
                                                'compound_vader_header',
                                                'compound_vader_articel_content',
                                               'polarity textblob sentiment header',
                                                'polarity textblob sentiment content']]
        new_df_price[['return_one_hot_encoded',
                       'flair_sentiment_header_score',
                       'flair sentiment content score',
                       'compound_vader_header',
                       'compound_vader_articel_content',
                       'polarity_textblob_sentiment_header',
                       'polarity textblob sentiment content']] = new df price[['return one h
        ot encoded',
                                                                                 'flair_sentim
        ent_header_score',
                                                                                 'flair sentim
        ent content score',
                                                                                 'compound_vad
        er_header',
                                                                                 'compound vad
        er articel content',
                                                                                 'polarity_tex
        tblob sentiment header',
                                                                                 'polarity tex
        tblob sentiment content']].fillna(0)
```

1 von 2 24.09.2020, 02:58

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print(new df price)
corr_price = new_df_price.corr()
corr_price.fillna(0)
print(corr price)
corr price.to excel(
    r'C:\Users\victo\Master Thesis\correlation\volkswagen\minutely\correlation\volk
swagen_correlation_price_with_semantics.xlsx')
# calculating correlation volume vs semantics
new df volume = concatenate dataframe[['volume one hot encoded',
                                        'flair_sentiment_header_score',
                                        'flair_sentiment_content_score',
                                        'compound_vader_header',
                                        'compound_vader_articel_content',
                                        'polarity textblob sentiment header',
                                        'polarity_textblob_sentiment_content']]
new_df_volume[['volume_one_hot_encoded',
                'flair sentiment header score',
               'flair_sentiment_content_score',
               'compound vader header',
               'compound_vader_articel_content',
               'polarity textblob sentiment header',
               'polarity_textblob_sentiment_content']] = new_df_volume[['volume_one
hot encoded',
                                                                          'flair sent
iment header score',
                                                                          'flair sent
iment content score',
                                                                          'compound v
ader header',
                                                                          'compound v
ader_articel_content',
                                                                          'polarity_t
extblob sentiment header',
                                                                          'polarity t
extblob sentiment content']].fillna(
print(new df volume)
corr_volume = new_df_volume.corr()
corr_volume.fillna(0)
print(corr_volume)
corr_volume.to_excel(
    r'C:\Users\victo\Master_Thesis\correlation\volkswagen\minutely\correlation\volk
swagen_correlation_volume_with_semantics.xlsx')
```

2 von 2 24.09.2020, 02:58