model

April 14, 2019

```
In [1]: import pandas as pd
        import xgboost as xgb
        import matplotlib.pyplot as plt
        from sklearn.metrics import accuracy_score
        import heapq
In [2]: #Preprocessing
        col_to_drop = ['fin_neg','fin_neu','fin_pos', 'fin_subheading', 'fin_title','news_kids
               'news_pos', 'news_score', 'news_title', 'news_url', 'reddit_domain', 'reddit_neg
               'reddit_num_comments', 'reddit_pos', 'reddit_score', 'reddit_title',
               'symbol', 'tweet_favorites', 'tweet_hashtags',
               'tweet_neg', 'tweet_neu', 'tweet_pos', 'tweet_retweets', 'tweet_text', 'asset_na
        col_to_drop_crypto = ['fin_neg','fin_neu','fin_pos', 'fin_subheading', 'fin_title','ne
               'news_pos', 'news_score', 'news_title', 'news_url', 'reddit_domain', 'reddit_neg
               'reddit_num_comments', 'reddit_pos', 'reddit_score', 'reddit_title',
               'symbol', 'tweet_favorites', 'tweet_hashtags',
               'tweet_neg', 'tweet_neu', 'tweet_pos', 'tweet_retweets', 'tweet_text', 'asset_na
        def preprocessing(stock_pair):
            df = stock_pair["data"].drop(columns = col_to_drop,axis=1)
            df = df.astype(float)
            for col in df.columns:
                df[col] = df[col].fillna(df[col].mean())
            return df
        def preprocessing_crypto(crypto_pair):
            df = crypto_pair["data"].drop(columns = col_to_drop_crypto,axis=1)
            df = df.astype(float)
            for col in df.columns:
                df[col] = df[col].fillna(df[col].mean())
            return df
In [3]: def create_predictors(df):
            predictors = pd.DataFrame({"sma20":df.open.rolling(window=20).mean()})
            predictors["sma40"] = df.open.rolling(window=40).mean()
            predictors["sma20_1"] = predictors.sma20.shift(1)
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predictors["sma20_increment"] = predictors.sma20.diff()
   predictors["sma20_1_increment"] = predictors.sma20_1.diff()
    predictors["sma40_increment"] = predictors.sma40.diff()
   predictors["vol_increment"] = df.volume.diff()
    predictors["vol rel increment"] = df.volume.diff() / df.volume
   predictors["open_1"] = df.open.shift(1)
   predictors["open incr"] = df.open - df.open.shift(1)
   predictors["open"] = df.open
   predictors['ema20'] = df.open.ewm(span=20,adjust=False).mean()
   predictors["ema20_1"] = predictors.ema20.shift(1)
   predictors["ema20_increment"] = predictors.ema20.diff()
    predictors['ema40'] = df.open.ewm(span=40,adjust=False).mean()
   predictors["ema40_1"] = predictors.ema40.shift(1)
   predictors["ema40_increment"] = predictors.ema40.diff()
   predictors["ema40_1_increment"] = predictors.ema40_1.diff()
   predictors["high"] = df.high
   predictors["low"] = df.low
   predictors["close"] = df.close
    predictors['fin_compound'] = df.fin_compound
   predictors['news compound'] = df.news compound
   predictors['reddit compound'] = df.reddit compound
   predictors['tweet compound'] = df.tweet compound
    return predictors.dropna()
def create_predictors_crypto(df):
   predictors = pd.DataFrame({"sma20":df.open.rolling(window=20).mean()})
   predictors["sma40"] = df.open.rolling(window=40).mean()
   predictors["sma20_1"] = predictors.sma20.shift(1)
   predictors["sma20_increment"] = predictors.sma20.diff()
   predictors["sma40_increment"] = predictors.sma40.diff()
   predictors["sma20_1_increment"] = predictors.sma20_1.diff()
    predictors["vol_increment"] = df.volumefrom.diff()
   predictors["vol_rel_increment"] = df.volumefrom.diff() / df.volumefrom
   predictors["open 1"] = df.open.shift(1)
   predictors["open_incr"] = df.open - df.open.shift(1)
   predictors["open"] = df.open
   predictors['ema20'] = df.open.ewm(span=20,adjust=False).mean()
   predictors['ema40'] = df.open.ewm(span=40,adjust=False).mean()
   predictors["ema20_increment"] = predictors.ema20.diff()
   predictors["ema40_1"] = predictors.ema40.shift(1)
   predictors["ema40_increment"] = predictors.ema40.diff()
   predictors["ema40_1_increment"] = predictors.ema40_1.diff()
    predictors["high"] = df.high
   predictors["low"] = df.low
    predictors["close"] = df.close
    predictors['fin_compound'] = df.fin_compound
   predictors['news_compound'] = df.news_compound
```

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predictors['reddit_compound'] = df.reddit_compound
            predictors['tweet_compound'] = df.tweet_compound
            return predictors.dropna()
In [4]: #Create target test and training
        def create_test_target(Predictors):
            target = pd.DataFrame({"value":Predictors.sma20.shift(-1) - Predictors.sma20}).dro
            X = pd.merge(Predictors, target,left_index=True,right_index=True)[Predictors.column
            y = pd.merge(Predictors, target,left_index=True,right_index=True)[target.columns]
            train_samples = int(X.shape[0] * 0.65)
            X_train = X.iloc[:train_samples]
            X_test = X.iloc[train_samples:]
            y_train = y.iloc[:train_samples]
            y_test = y.iloc[train_samples:]
            return target, X_train, X_test, y_train, y_test
In [5]: #Creating the model
        n_{estimators} = [150, 200, 250, 450, 500, 550, 1000]
        \max_{\text{depth}} = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]
        def model(target, X_train, X_test, y_train, y_test):
            def getBinary(val):
                if val>0:
                    return 1
                else:
                    return 0
            y_test_binary = pd.DataFrame(y_test["value"].apply(getBinary))
            best_depth = 0
            best_estimator = 0
            max_score = 0
            for n in n_estimators:
                for md in max_depth:
                    model = xgb.XGBRegressor(gamma=0.0,n_estimators=n,base_score=0.7,colsample
                    xgbModel = model.fit(X_train,y_train.value.apply(getBinary))
                    y_predicted = model.predict(X_test)
                    y_predicted_binary = [1 if yp >=0.5 else 0 for yp in y_predicted]
                    score = accuracy_score(y_test_binary, y_predicted_binary)
                    if score > max_score:
                        max score = score
                        best_depth = md
                        best_estimator = n
                        best_y_predicted_binary = y_predicted_binary
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```
best_model = xgbModel
           print("Best score is " + str(max_score) + " at depth of " + str(best_depth) + " a
            return y_test_binary,best_y_predicted_binary,max_score,best_model
In [6]: #To merge the predicted values with the original dataframe
        def merge_original(y_test_binary,y_predicted_binary,stock_pair):
            y_test_binary['predicted'] = y_predicted_binary
            merged = pd.merge(stock_pair['data'], y_test_binary,left_index=True,right_index=True
            return merged
In [7]: #Reading the data files
        df_stock = pd.read_json("C:\\Users\\rishb\\tradespade\\Code\\Data_Collection\\Hourly-P:
        df_crypto = pd.read_json("C:\\Users\\rishb//tradespade\\Code\\Data_Collection\\Hourly-
In [8]: #For stocks
        stock_sybmol_list=['WMT', 'US1.MSFT', 'US1.HD', 'US2.GOOG', 'US2.AAPL', 'US1.WFC',
               'US1.CVX', 'US1.KO', 'US1.XOM']
        stock_name_list = ['Walmart', 'Microsoft', 'Home_Depot',
               'Alphabet', 'Apple', 'Wells_Fargo',
               'Chevron', 'Coca-Cola',
               'Exxon_Mobil']
        mylist = list()
        for stock,stock_name in zip(stock_sybmol_list,stock_name_list):
            stock = {"stock_name":stock_name, "data": df_stock[df_stock['symbol']==stock]}
            stock["data"] = stock["data"] . set_index("created_utc")
            mylist.append(stock)
        total_acc = 0
        for dict1 in mylist:
            df = preprocessing(dict1)
            Predictors = create_predictors(df)
            target,X_train,X_test,y_train,y_test = create_test_target(Predictors)
            y_test_binary,y_predicted_binary,acc,xgbModel = model(target,X_train,X_test,y_train)
            fig = plt.figure(figsize=(6,6))
            plt.xticks(rotation='vertical')
            plt.bar([i for i in range(len(xgbModel.feature_importances_))], xgbModel.feature_importances_))]
            plt.show()
            print(dict1['stock_name'],acc)
            merged = merge_original(y_test_binary,y_predicted_binary,dict1)
            merged['accuracy'] = acc
            total_acc+=acc
            dict1['acc']=acc
            dict1['feature_importance'] = xgbModel.feature_importances_.tolist()
            dict1['merged'] = merged
            dict1['stock_name'] = dict1['stock_name']+"_with_predicted"
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print("The average accuracy for stocks is: {}".format(total_acc/9))

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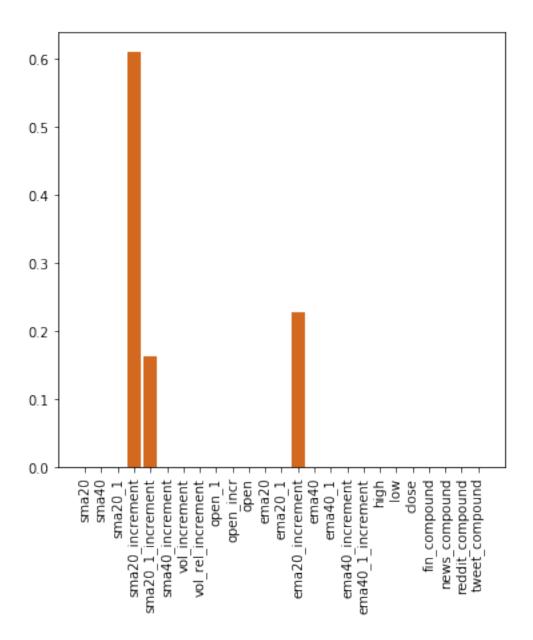
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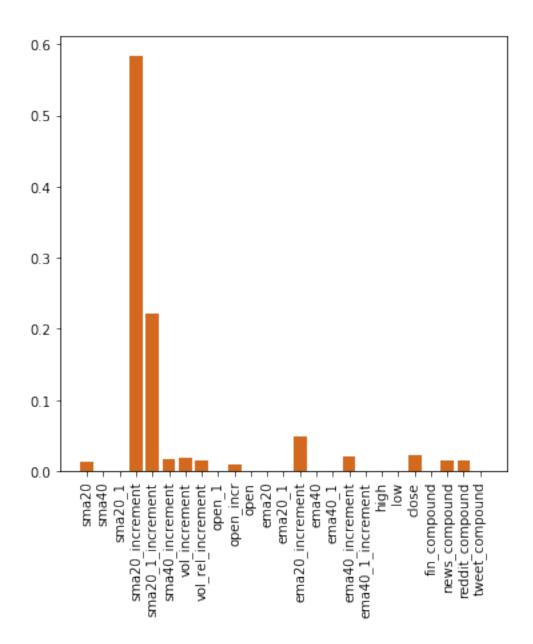
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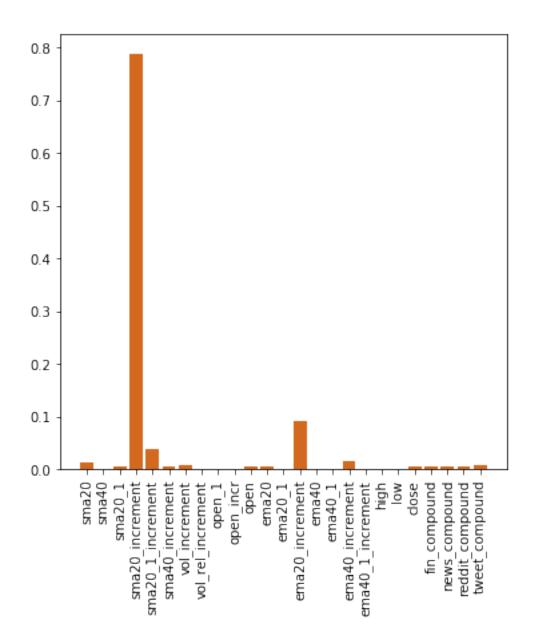
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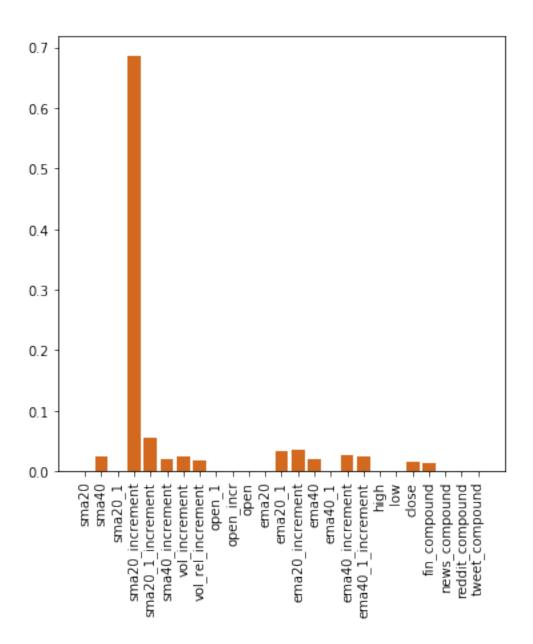
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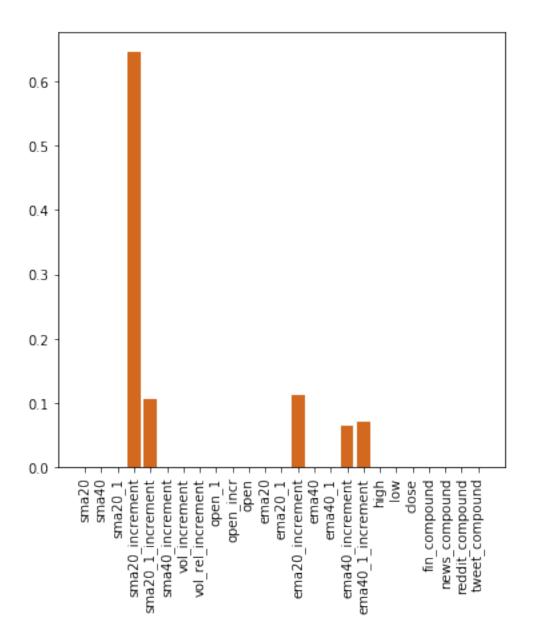
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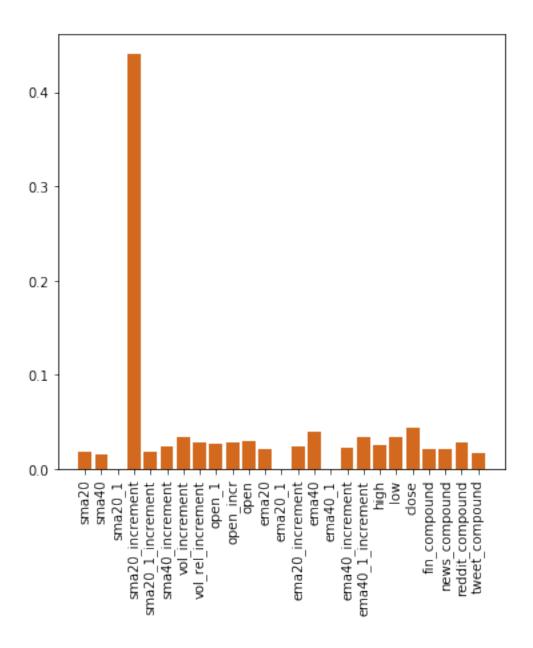
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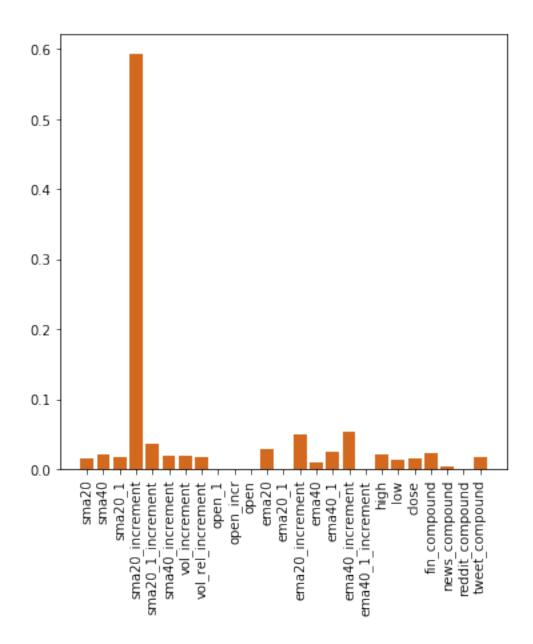
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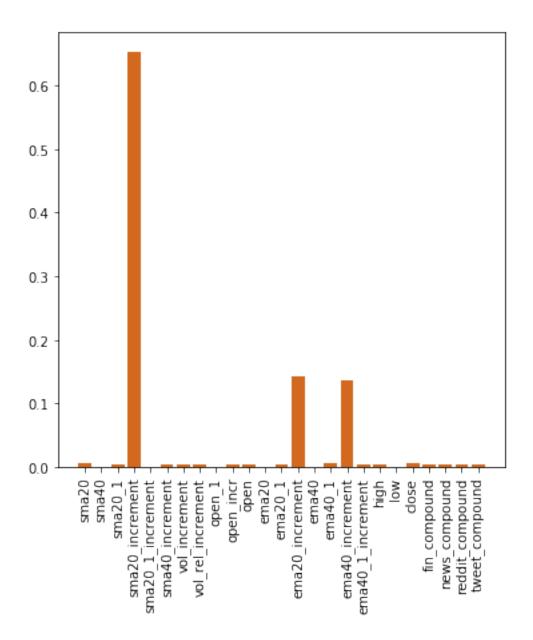
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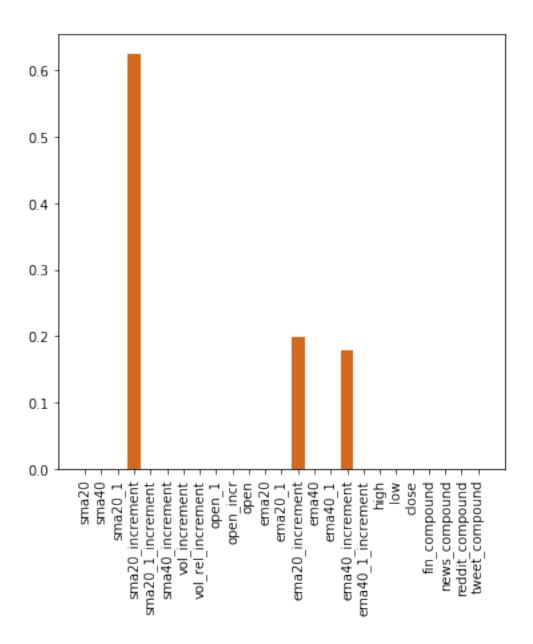
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'Bitcoin',
'EOS',

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'Litecoin',
         'Stellar',
         'TRON',
         'XRP',
         'Bitcoin Cash'
        # , 'Ethereum'
        mylist_crypto = list()
        for crypto,crypto_name in zip(crypto_symbol_list,crypto_name_list):
            crypto = {"crypto_name":crypto_name, "data": df_crypto[df_crypto['symbol'] == crypto]
            crypto["data"]=crypto["data"].set_index("created_utc")
            mylist_crypto.append(crypto)
        save_path = "C:\\Users\\rishb\\predicted_crypto\\"
        \#n_{estimators} = [150, 200, 250, 450, 500, 550, 1000]
        \#\max_{depth} = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]
        total_acc_crypto = 0
        for dict1 in mylist_crypto:
            df = preprocessing_crypto(dict1)
            Predictors = create_predictors_crypto(df)
            target,X_train,X_test,y_train,y_test = create_test_target(Predictors)
            y_test_binary,y_predicted_binary,acc,xgbModel = model(target,X_train,X_test,y_train)
            merged = merge_original(y_test_binary,y_predicted_binary,dict1)
            merged['accuracy'] = acc
            fig = plt.figure(figsize=(6,6))
            plt.xticks(rotation='vertical')
            plt.bar([i for i in range(len(xgbModel.feature_importances_))], xgbModel.feature_importances_))]
            plt.show()
            print(dict1['crypto_name'],acc)
            dict1['acc'] = acc
            dict1['feature_importance'] = xgbModel.feature_importances_.tolist()
            dict1['merged'] = merged
            dict1['crypto_name'] = dict1['crypto_name']+"_with_predicted"
            total_acc_crypto+=acc
             dict1["merged"].reset_index().to_json(save_path+dict1['crypto_name']+'.json',orie
        print("Average cryptocurrency accuracy={}".format(total_acc_crypto/8))
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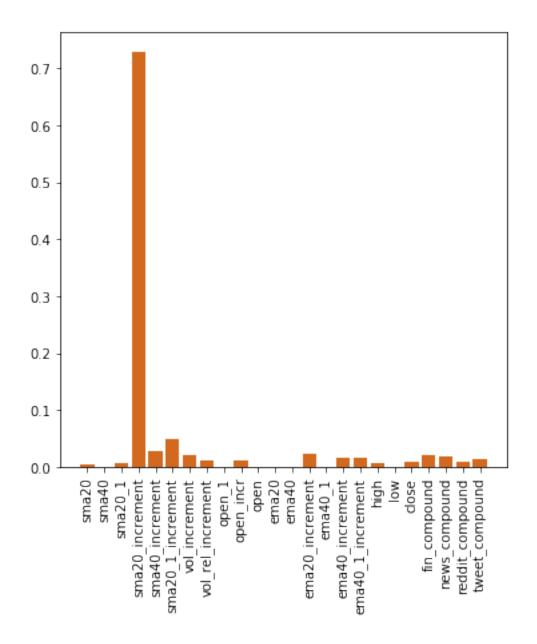
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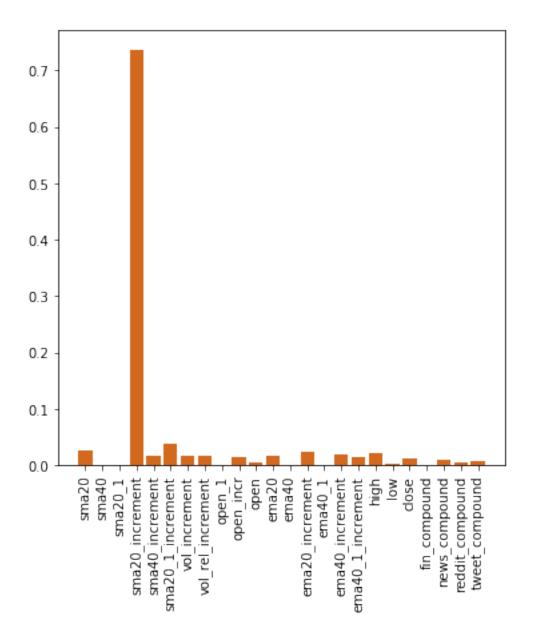
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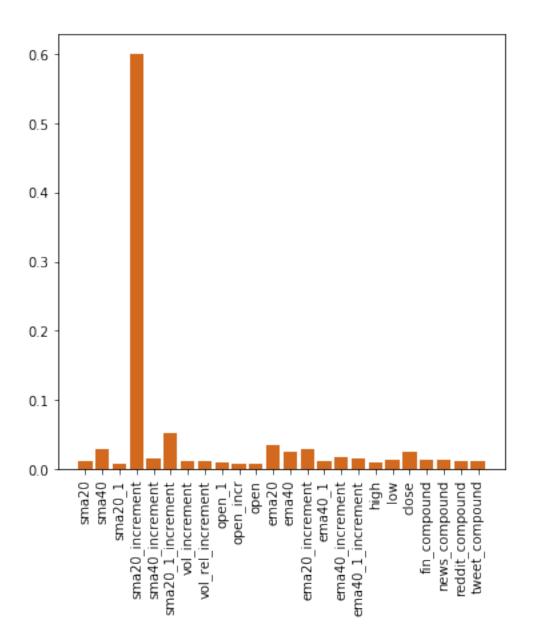
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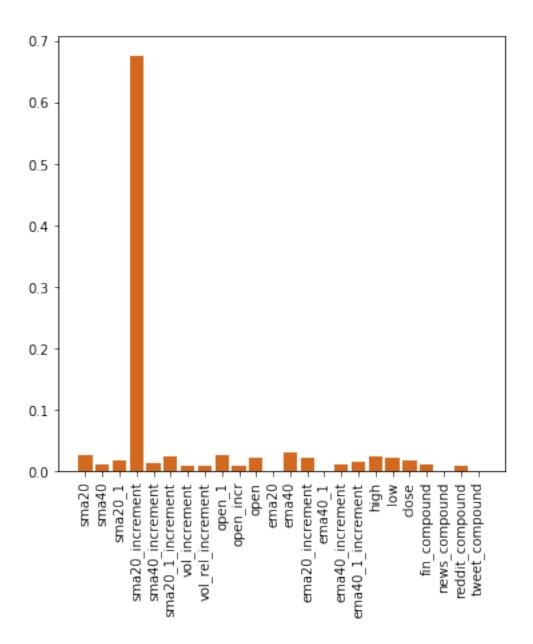
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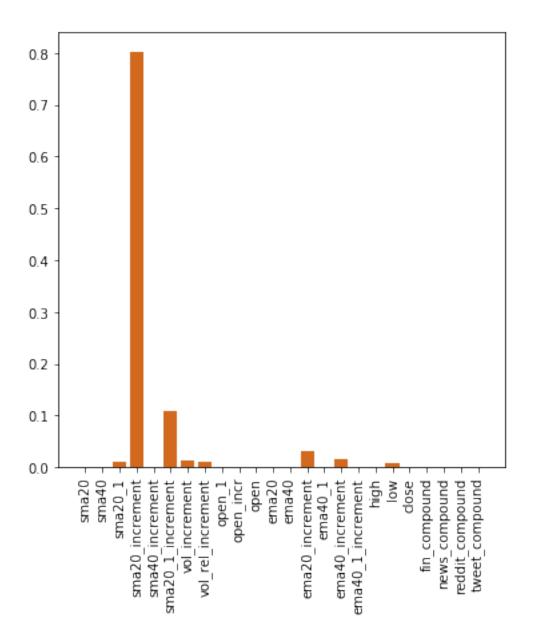
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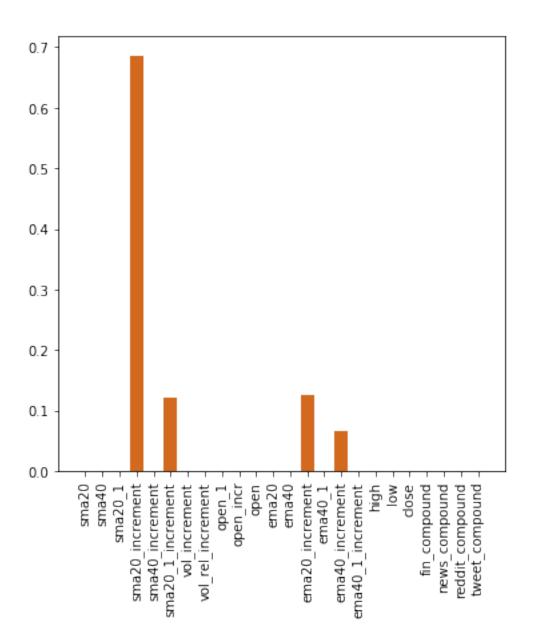
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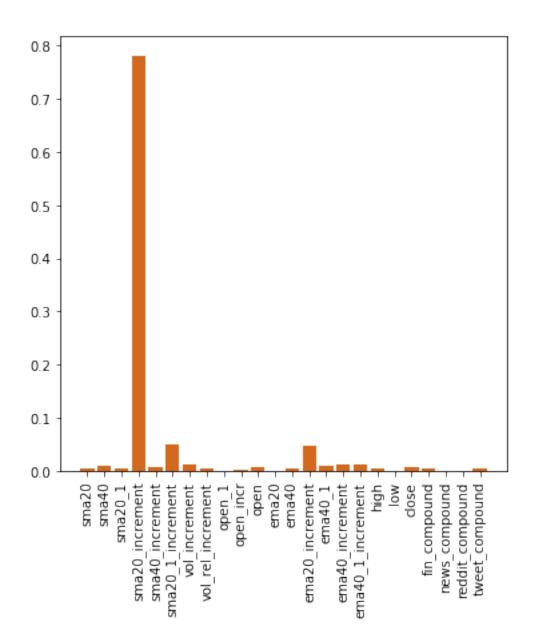
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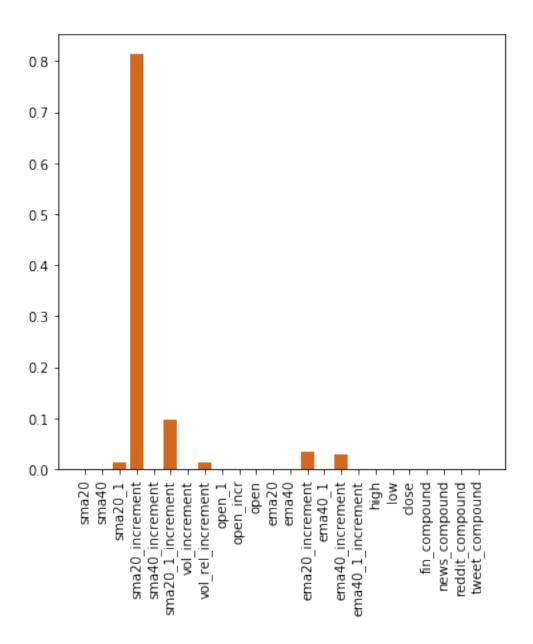
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Bitcoin_Cash 0.8552546744036106 Average cryptocurrency accuracy=0.8853694471476877

```
In [43]: #Feature Analysis
    s = list()
    c = list()
    for d in mylist:
        s.append(d['feature_importance'])
    for d in mylist_crypto:
```

```
c.append(d['feature_importance'])
        feat_imp_stock = [sum(e)/len(e) for e in zip(*1)]
        feat_imp_crypto = [sum(e)/len(e) for e in zip(*c)]
        features = ['sma20', 'sma40', 'sma20_1', 'sma20_increment', 'sma20_1_increment', 'sma20_1
        features_crypto = ['sma20', 'sma40', 'sma20_1', 'sma20_increment', 'sma40_increment',
        feature_dict_stock = {k:v for k,v in zip(features,feat_imp_stock)}
        feature_dict_crypto= {k:v for k,v in zip(features_crypto,feat_imp_crypto)}
        print(heapq.nlargest(5, feature_dict_stock.items(), key=lambda i: i[1]))
        print(heapq.nsmallest(5, feature_dict_stock.items(), key=lambda i: i[1]))
        print(heapq.nlargest(5, feature_dict_crypto.items(), key=lambda i: i[1]))
        print(heapq.nsmallest(5, feature_dict_crypto.items(), key=lambda i: i[1]))
        fig = plt.figure(figsize=(6,6))
        plt.xticks(rotation='vertical')
        plt.bar([i for i in range(len(feat_imp_stock))], feat_imp_stock, tick_label=features,
        plt.title("Average feature importance for stocks")
        plt.show()
        fig = plt.figure(figsize=(6,6))
        plt.xticks(rotation='vertical')
        plt.bar([i for i in range(len(feat_imp_crypto))], feat_imp_crypto, tick_label=feature;
        plt.title("Average feature importance for cryptocurrencies")
        plt.show()
[('open 1', 0.002971383018626107), ('sma20 1', 0.0030296132641120087), ('ema40 1', 0.003488029
[('ema40_1', 0.002608428359963), ('reddit_compound', 0.004455432062968612), ('open_1', 0.00447
```