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| In []: | <pre>from sklearn.model_selection import GridSearchCV # defining parameter range param_grid = {'C': [0.1, 1],</pre> |
|------------------------------|---|
| In [35]: | <pre>from sklearn.linear_model import LogisticRegression</pre> |
| In []: | <pre>from sklearn.linear_model import LogisticRegression from sklearn.ensemble import RandomForestClassifier from sklearn.tree import DecisionTreeClassifier Train Model</pre> |
| In []: | <pre>from sklearn.svm import SVC svclassifier = SVC(kernel='rbf',probability = True) svclassifier.fit(X, ydata) from sklearn.calibration import CalibratedClassifierCV svm = LinearSVC() clf = CalibratedClassifierCV(svm) clf.fit(train_df, ydata)</pre> |
| In []: | <pre>logisticRegr = LogisticRegression() model = LogisticRegression() model.fit(train_df, ydata) Column to predict: Y = vectorizer.transform(test_d["page_description"])</pre> |
| | <pre>from gensim.models import Word2Vec, KeyedVectors i=0 sentances_to_train = [] sentences_to_test=[] for sentances in train_d['page_description']: sentances_to_train.append(sentances.split()) for sentances in test_d['page_description']: sentances_to_train.append(sentances.split()) w2v_model = Word2Vec(sentances_to_train, min_count=2, vector_size=200, workers=4) #w2v_model=KeyedVectors.load_word2vec_format('GoogleNews-vectors-negative300.bin', binary=True) text = train_d['page_description'].apply(gensim.utils.simple_preprocess)</pre> |
| | <pre>test = test_d['page_description'].apply(gensim.utils.simple_preprocess) train_d['web'] = text #test_d['web'] test_d['web']=test make_vector = [] def avg_word2_vec(df): sc = np.zeros(200) i=0 for text1 in df: if text1 not in w2v_model.wv.key_to_index:</pre> |
| In [26]: | <pre>make_test=[] def avg_word2_test(df): sc = np.zeros(200) i=0 for text1 in df: if text1 not in w2v_model.wv.key_to_index:</pre> |
| <pre>In [28]: Out[28]:</pre> | <pre>sc = np.array(sc) make_test.append(sc) return sc vectorized = train_d['web'].apply(lambda x:avg_word2_vec(x)) vectorizedtest = test_d['web'].apply(lambda x:avg_word2_test(x)) make_vector = np.array(make_vector) make_test = np.array(make_test) make_vector.shape (4437, 200)</pre> from sklearn model selection import GridSearch(V) |
| In [40]: | from sklearn.model_selection import GridSearchCV from sklearn.svm import SVC,NuSVC param_grid = {'C': [0.1,1, 10, 100], 'gamma': [1,0.1,0.01,0.001]} grid = GridSearchCV(SVC(probability=True), param_grid, refit=True, verbose=2) grid.fit(np.array(make_vector), train_d['label']) Fitting 5 folds for each of 16 candidates, totalling 80 fits [CV] END |
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| In [41]: In [39]: | GridSearchCV(estimator=SVC(probability=True), |
| In []: | <pre>ypred = model9.predict_proba(np.array(make_test)) Slacking: ypred1 = model1.predict_proba(Y).T[1] ypred2 = svclassifier.predict_proba(Y).T[1] ypred3 = model2.predict_proba(Y).T[1] ypred = (ypred1+ypred2+ypred3)/3</pre> |
| | <pre>Vooting : from sklearn.ensemble import VotingClassifier from sklearn.tree import DecisionTreeClassifier create a voting classifier with hard voting voting_classifier_hard = VotingClassifier(estimators = [('dtc', DecisionTreeClassifier(random_state=42)),</pre> |
| In [42]: | <pre>('gnb', SVC())], voting='hard') create a voting classifier with soft voting voting_classifier_soft = VotingClassifier(estimators = [('dtc', DecisionTreeClassifier(random_state=42)),</pre> |
| In []: | |
| In []: In []: | <pre>ypred.shape ypred = ypred.T[1] ypred = ypred.T ypred ypred.shape ypred sub = pd.read_csv("/input/aid-escalating-internet-coverage/sample_submission.csv") sub.head()</pre> |
| In []: | <pre>sub.head() *if model after suffling dataframe based on alchemy category is used uncomment line 2* sub["label"] = ypred #sub['link_id'] = testdf1['link_id'] #if model after suffling dataframe based on alchemy category is used sub.head() Expoting the output file: sub.to_csv('./submission14.csv',index = False)</pre> |
| | <pre>from sklearn.model_selection import StratifiedKFold from sklearn.metrics import roc_auc_score as rac Checking Accuracy using ROC Curve and AUC: skf = StratifiedKFold(n_splits = 4,shuffle = True) ydata = train_d['label'] skf.get_n_splits(train_df, ydata) print(skf) model = KNeighborsClassifier(n_neighbors=50,leaf_size = 20) #StratifiedKFold(n_splits=4, random_state=None, shuffle=True) racs = []</pre> |
| In []: | <pre>racs = [] for train_index, test_index in skf.split(train_df, ydata): #print("TRAIN:", train_index, "TEST:", test_index) X_train, X_test = train_df[train_index], train_df[test_index] y_train, y_test = ydata[train_index], ydata[test_index] model.fit(X_train,y_train) ypred = model.predict_proba(X_test) ypred = ypred.T[1] racs.append(rac(y_test,ypred)) print(np.mean(racs))</pre> |
| In []: | |
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