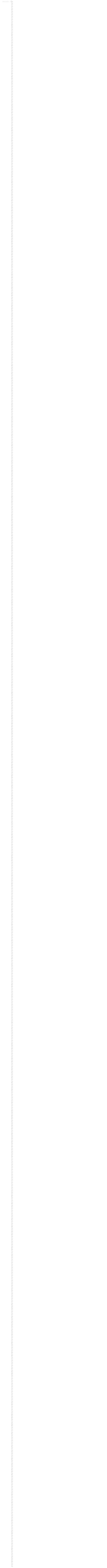
saw 5\ns. ine 9275. ed 2 fie. 5\nskipp. e 109363 ted 2 fie. aw 5\nsk. line 124 pected 2 s, saw 5 ing line 1: expectields, sakipping 5920: exp 2 fields \nskippin 195754: ed 2 field 5\nskippin 20121 ted 2 field 5\nskippin e 220121 ted 2 field s\nskippin e 25\nskippin e 269150: expectields, sakipping b'skipping b'skippin 269150: ed 2 field 5\nskipping b'skipping b'skipping b'skipping complete 287468 ted 2 field aw 5\nskipping e 287468 ted 2 field sw 5\nskipping e 287468 ted 2 field	74027: expected 2	14132: expected 2 fields, saw 5\ns ripping line 2500 expected 2 fields, saw 5\nskipping line 36550: expected 2 fields, saw 5\nskipping line 48628: expected 2 fields, saw 5\nskipping line 58141: expected 2 fields, saw 5\ns	11220: expected 2 fields, saw 5\ns kipping line 1741 1: expected 2 fieds, saw 5\nSkipping line 32878: expected 2 fields, saw 5\nSkipping line 46861: expect d 2 fields, saw 5\nSkipping line 561518: expected 2 fields, saw 5\nskipping line 5kipping line 7781	fields, saw 5\nSk kipping line 14293 9: expected 2 fields, saw 5\nSkipping line 29702: expected 2 fields, saw 5\nSkipping line 40576: expected 2 fields, saw 5\nSkipping line 488782: expected 2 fields, saw 5\nSk kipping line 72083 1: expected 2 fields	fields, saw 5\nSk: cipping line 13809: 3: expected 2 fields ds, saw 5\nSkipping ng line 26603: expected 2 fields, saw 5\nSkipping line ae 38732: expected d 2 fields, saw 5\n Skipping line 479 system of the sam	expected s, saw 5\ g line 22 ected 2 if w 5\nSkip e 35643: 2 fields nSkipping 39: expected coing line expected s, saw 5\ g line 83
195754: d 2 field 5\nSkipps e 220121 ted 2 field aw 5\nSk! line 228 pected 2 s, saw 5 ing line 5: expectields, sakipping b'Skipping b'Skipping 269150: d 2 field 5\nSkipps e 287468 ted 2 field aw 5\nSk!	74027: expected 2 fields, saw 5\nSk ipping line 89198: : expected 2 field ds, saw 5\nSkippin ng line 103421: ex expected 2 fields lds, saw 5\nSkippi pping line 121518: 08: expected 2 fie fields, saw 5\nSki nSkipping line 139 144093: expected 2 ed 2 fields, saw 5 w 5\nSkipping line ine 171325: expect ected 2 fields, sa saw 5\nSkipping l	fields, saw 5\ns cipping line 8529 expected 2 fields, saw 5\nskipping line 97334: expected 2 fields, saw 5\nskipping line 113843: expected 2 fields, saw 5\nskipping line 13553 expected 2 fields, saw 5\nskipping line 164515: expected 2 fields, saw 5\nskipping line 164515: expected 2 fields, saw 5\nskipping line 164515: expected 2 fields, saw aw 5\nskipping lilline 190264: expe	kipping line 7781 5: expected 2 fie ds, saw 5\nSkippi ng line 93689: ex pected 2 fields, saw 5\nSkipping g line 110117: ex expected 2 fields ds, saw 5\nSkippi ping line 129608: 2: expected 2 fie fields, saw 5\nSk Skipping line 149 158014: expected d 2 fields, saw 5 5\nSkipping line ne 176210: expect cted 2 fields, sa	1: expected 2 fields, saw 5\nSkipping line 92499: expected 2 fields, saw 5\nSkipping line 106872: expected 2 fields, saw 5\nSkipping ng line 123692: expected 2 fields, saw 5\nSkipping line 140401850: expected 2 fields, saw 5\nSkipping line 171424: expected ed 2 fields ed 2	ds, saw 5\nSkipping and line 88665: experience 2 fields, saw 5\nSkipping line 102316: expected 2 fields, saw 5\nSkipping line 115634: expected 2 fields, saw 5\nSkipping line 138042: expected 2 fields, saw 5\nSkipping line 162047 and line	g line 83 ected 2 few 5\nSkip e 94776: d 2 field 5\nSkippi e 110465: ced 2 fie aw 5\nSki line 1333 bected 2 s, saw 5\ ing line 7: expect ields, sa kipping 1 8603: exp 2 fields,
ted 2 fie aw 5\nSk:	xpected 2 fields, s, saw 5\nSkipping ng line 213218: ex expected 2 fields lds, saw 5\nSkipping pping line 227808: 33: expected 2 fields, saw 5\nSkipping line 240 245395: expected 2 ed 2 fields, saw 5\nSkipping line ine 257094: expect g line 264626: exp xpected 2 fields, saw 5\nSkipping line 257094: expect g line 264626: exp xpected 2 fields, s, saw 5\nSkipping ng line 279807: ex	saw 5\nSkipping g line 202603: ex spected 2 fields, s, saw 5\nSkippin line 227035: expected 2 fields, saw 5\nSkipping line 23449 line 250276: expected 2 fields, saw 5\nSkipping line expected 2 fields, saw bected 2 fields, saw bected 2 fields, saw sected 2 fields, saw synskipping g line 274742: expected 2 fields, saw spected 2 fields, say spected 2 fields, say spected 2 fields, say spected 2 fields,	line 197124: expe pected 2 fields, saw 5\nSkipping g line 223518: ex expected 2 fields ds, saw 5\nSkippi ping line 232043: 0: expected 2 fie fields, saw 5\nSk Skipping line 246 246752: expected d 2 fields, saw 5 5\n' saw 5\nSkipping l line 271360: expe pected 2 fields, saw 5\nSkipping	cted 2 fields, saw saw 5\nSkipping liline 217060: expected 2 fields, saw 7\nSkipping line 228516: expected 2 fields, saw 5\nSkipping line 244518 lields, saw 5\nSkipping line 25028: expected 2 fields, saw 5\nSkipping liline 283425: expected 2	ted 2 fields, saw 5 som	199263: ed 2 field 5 nSkipps de 226293: de 2 field 2 field 2 field 2 field 3 field 3 field 5 nSkippin 273975: ed 2 field 5 nSkippin 273975: ed 2 field 5 nSkippin 3 field 5 nSkippin 4 field 5 nSkippin 5 nSkippin 5 nSkippin 5 nSkippin 5 nSkippin 6 field 6 fiel
pected 2 s, saw 5 ing line 7: expectields, sakipping 6534: exp 2 fields \nskipping 386304: ed d 2 field 5\nskipping e 397385	expected 2 fields lds, saw 5\nSkippi pping line 296643: 26: expected 2 fields, saw 5\nSkipping line 333 336290: expected 2 ed 2 fields, saw 5\nSkipping line 359753: expected 2 fields, saw 5\nSkipping line 381073: expected 2 fields, saw 5\nSkipping line 385530: expected 2 fields, say 5\nSkipping line 395530: expected 2 fields	s, saw 5\nSkippin Ing line 293735: c expected 2 fiel elds, saw 5\nSkip Inping line 31820 8864: expected 2 fields, saw 5\n S\nSkipping line c 353446: expecte ded 2 fields, saw aw 5\nSkipping li line 379327: expe	g line 292995: ex expected 2 fields ds, saw 5\nSkippi ping line 310360: 7: expected 2 fie fields, saw 5\nSk Skipping line 343 344059: expected d 2 fields, saw 5\nSkipping line ne 369514: expect cted 2 fields, sa saw 5\nSkipping line 387635: expe pected 2 fields, saw 5\nSkipping g line 397509: ex	pected 2 fields, so, saw 5\nSkipping and line 296848: exexpected 2 fields and so saw 5\nSkipping line 3556: expected 2 fields, saw 5\nSkipping line 359974: expected 2 fields, saw 5\nSkipping line 35 nSkipping line 381489: expected 2 fields, saw 5\nSkipping line 381489: expected 2 fields, saw 5\nSkipping line 396939: expected 2 fields	saw 5\nSkipping line line 295060: expected pected 2 fields, say 5\nSkipping line 31783: expected 2 fields, saw 5\nSkipping line 348692; expected 2 fields, saw 5\nSkipping line 3773: expected 2 fields, saw 5\nSkipping line 3769: expected 2 fields, saw 5\nSkipping line 3775\nSkipping lin	e 293496 ted 2 fie aw 5\nSk line 3170 pected 2 s, saw 5 ing line l: expected s, saw 2 fields, saw 2 fields 389613: 6 5\nSkippi 6 402902
aw 5\nski line 425 pected 2 s, saw 5 ing line 2: expectields, sakipping 8322: exp 2 fields \nskippin 489063: a d 2 field 5\nskippi e 510410 ted 2 fiel b'Skippin	pping line 419423: 65: expected 2 fie fields, saw 5\nSki nSkipping line 445 447184: expected 2 ed 2 fields, saw 5 w 5\nSkipping line ine 476281: expect ected 2 fields, sa saw 5\nSkipping l g line 485519: exp xpected 2 fields, s, saw 5\nSkipping ng line 508828: ex expected 2 fields lds, saw 5\nSkippi g line 50874: exp	expected 2 fields, saw 5\nSkipping line 43977 5507: expected 2 fields, saw 5\nSkipping line 467630: expected 2 fields, saw 5\nSkipping line 481688: expected 2 fields, saw 5\nSkipping g line 501954: expected 2 fields, saw 5\nSkipping g line 501954: expected 2 fields, saw 5\nSkipping g line 501954: expected 2 fields, saw 5\nSkippin ling line 520340: bected 2 fields, bected 2 fields,	ds, saw 5\nSkippi ping line 427496: 6: expected 2 fie fields, saw 5\nSk Skipping line 448 458249: expected d 2 fields, saw 5 5\nSkipping line ne 479999: expect cted 2 fields, sa saw 5\nSkipping l line 494525: expe pected 2 fields, saw 5\nSkipping g line 518229: ex expected 2 fields saw 5\nSkipping	expected 2 fields lds, saw 5\nSkipping line 445548 603: expected 2 fields, saw 5\nSkipping line 478010: expected 2 fields, saw 5\nSkipping line 486000: expected 2 fields, saw 5\nSkipping line 486000: expected 2 fields, saw 5\nSkipping line 509833: expected 2 fields, saw 5\n'ine 526251: expected 2	spected 2 fields, sa spected 2 fields, sa s, saw 5\nSkipping 1 ang line 440345: exp selds, saw 5\nSkipping skipping line 460274 3961: expected 2 fields, saw 5\nSkipping line 480 selds, saw 5\nSkipping line 480 selds, saw 5\nSkipping line 480 selds, saw 5\nSkipping line 480 saw 5\nSkipping line 480	aw 5\nsk line 438 bected 2 s, saw 5 ing line 4: expecteds, sak ing line 4: expected say line 1: expected say line 2: expected say line 3: expected say line
d 2 field 5\nSkipp: e 553915 ted 2 field aw 5\nSk. line 5800 pected 2 s, saw 5' ing line 3: expectields, sakipping 5755: exp 2 fields \nSkipping 656233: exp d 2 field	s, saw 5\nSkipping ng line 553883: ex expected 2 fields lds, saw 5\nSkippi pping line 574412: 91: expected 2 fie fields, saw 5\nSki nSkipping line 592 596245: expected 2 ed 2 fields, saw 5 w 5\nSkipping line ine 617389: expect ected 2 fields, sa saw 5\nSkipping l g line 651833: exp xpected 2 fields, s, saw 5\nSkipping	g line 544954: expected 2 fields, s, saw 5\nSkippin line 565191: expected 2 fields, saw 5\nSkipping line 590172515: expected 2 fields, saw 5\nSkipping line 615643: expected 2 fields, saw aw 5\nSkipping line 648610: expected 2 fields, saw 5\nSkipping line 648610: expected 2 fields, saw 5\nSkipping line 648610: expected 2 fields, saw 5\nSkipping g line 660478: ex	pected 2 fields, saw 5\nSkipping g line 554172: ex expected 2 fields ds, saw 5\nSkippi ping line 582682: 1: expected 2 fields, saw 5\nSk Skipping line 607610939: expected d 2 fields, saw 5\nSkipping line ne 646243: expect cted 2 fields, sa saw 5\nSkipping l line 656694: expepected 2 fields,	saw 5\nSkipping liline 553887: expected 2 fields, so pected 2 fields, so pected 2 fields for the saw 5\nSkipping line 575985: expected 2 fields, saw 5\nSkipping line 61 634641: expected ed 2 fields, saw 5\nSkipping line 61 634641: expected ed 2 fields, saw 5\nSkipping line 61 634641: expected ed 2 fields, saw 5\nSkipping line 653663: expected 2 fields	ne 553002: expected ted 2 fields, saw 5 line 574108: expected 2 fields, saw 5 line 574108: expected 2 fields, saw 5 line 591924: expected 2 fields, saw 5 line 648772: expected 2 fields, saw 5 line 661133: expected 648772: expected 2 fields, saw 5 line 661133: expected 648773: expected 648773	d 2 fiel 5\nSkipp e 563534 ced 2 fi aw 5\nSk line 585 pected 2 s, saw 5 ing line 3: expecteds, s cipping 7165: ex 2 fields nSkippi 659783: d 2 fiel
passv 0 kzde! 1 kino: 2 visi7 3 megzy 4 lamborg	577 1 434 1 1 123 1			line 669827: expec	ted 2 fields, saw S	5\n'
array([1] Password S 0: Bad 1: Average 2: Good # Check	2, 0])	alue				
367579						
data.isr password strength dtype: in # Check sns.cour	pna(inplace=True) ull().sum() 0 0 t64 distribution of ta tplot(data['streng ib.axessubplots.	rth'])	x7ff038b3fad0>			
500000 - 400000 - 300000 - 200000 -	0	1 strength	2			
2. It is an Sepera # Conver	te dependent ting DataFrame to tuple = np.array(t and indep		bles		
array([[kzde5577', 1], kino3434', 1], visi7k1yr', 1], ., 184520socram', 1], marken22a', 1], fxx4pw4g', 1]], dt	cype=object) robustness in my n	model			
	s[0] for labels in s[1] for labels in					

Predicting Password Strength

'kzde5577', 'kino3434', 'visi7klyr', 'visi7klyr', 'AVYq1lDE4MgAZfNt', 'visi7klyr', 'megzy123', 'lamborghin1', 'ass26159', 'asv5o9yu', 'lamborghin1',
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'shooting1965j',

'bijou2012',] y		



from sklearn.feature_extraction.text import TfidfVectorizer In [18]: vectorizer = TfidfVectorizer(tokenizer = word_divide_char) Apply TF-IDF vectorizer on data In [19]: X = vectorizer.fit_transform(x) In [20]: X.shape Out[20]: (669639, 133) After applying TF-IDF vectorizer we now have 128 unique features. vectorizer.get_feature_names() Out[21]: ['\x01', '\x04', '\x05', '\x06', '\x08', '\x0e', '\x10', '\x11', '\x12', '\x16', '\x17', '\x19', '\x1b', '\x1c', '\x1e', 111, '#', '\$', 181, '&', '(', '*', ' + ' , '0', '1', 121, 131, '4', '5', '6', 171, 181, '9', '<', '=', '>', '?', '@', '[', '\\', ']', 1 ^ 1 , '_', 'a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', '1', 'm', 'n', '0', 'p', 'q', 'r', 's', 't', 'v', 'w', 'x', 'y', 'z', '{', '|', '}', 1~1, '\x7f', '\x8d', '\xa0', ';', '¤', · · · · , '«',
'-', '±', 121, 131, 'μ', 101, '1₄', 1341, ٠٤١, '×', 'ß', 'à', 'á', 'â', 'ä', 'å', 'æ', 'Ç', 'è', 'é', 'ê', 'í', 'î', 'ð', 'ñ', 'ò', 'ó', 'ô', ۱õ۱, '÷', 'ú', 'û', 'ü', 'ý', 'þ', 'ÿ', 'œ', '-', ' ‡ ' , ¹<¹, ' > ', ' TM '] # Object of Sparse matrix # the vector returned by tfidf vectorizer contains a large number of zero-valued elements # sparse matrices only store non-zero elements. It storing non-zero elements with triples - (Row, Column, value # By using sparse matrix we save a significant amount of memory and speed up the processing of that data first_document_vector = X[0] first_document_vector Out[22]: <1x133 sparse matrix of type '<class 'numpy.float64'>' with 6 stored elements in Compressed Sparse Row format> # Transforming sparse to dense representation first_document_vector.T.todense() ([[0.], Out[23]: matrix([[0. [0. [0.56693833], [0.], [0.59141273],
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password_pred = np.array([password])

predict strength of the password
y_predicted = model.predict(pred)
Print strength of the password
if y_predicted == np.array([0]):

elif y_predicted == np.array([1]):

else:

y_predicted

print(cm)

Out[130... array([1, 1, 1, ..., 1, 1, 1])

[[5479 12510 15] [3888 92964 2505] [40 5106 11421]]

Class wise accuracy: 0 0.3043212619417907 1 0.9356562698149099 2 0.6893825073942175

Accuracy: 0.820321366704498

print("Class wise accuracy: ")
for i in range(len(class_acc)):
 print(i, class_acc[i])

Create report of yout model

Random Forest Classifier

clf.fit(X_train, y_train)

[[16896 1106 2] [275 98905 177] [16 472 16079]]

Class wise accuracy:
0 0.938458120417685
1 0.9954507483116438
2 0.9705438522363735

1

accuracy

macro avg weighted avg

Accuracy: 0.9847082014216594

print("Class wise accuracy: ")
for i in range(len(class_acc)):
 print(i, class acc[i])

clf = RandomForestClassifier(n_jobs=-1)

cm = confusion_matrix(y_test,y_predicted)

class acc = list(cm.diagonal()/cm.sum(axis=1))

print(classification_report(y_test,y_predicted))

0.99 0.97 0.98 0.98

0.98

0.98

0.99

precision recall f1-score support

0.96 0.99

0.98

18004 99357

16567

0.98 133928 0.98 133928 0.98 133928

0.94

0.97

y_predicted = clf.predict(X_test)

In [34]:

In [134...

In [138...

predict(model_lr, password)

Your password "asap121@16" is Medium.

y_predicted = model_lr.predict(X_test)

cm = confusion_matrix(y_test,y_predicted)

class_acc = list(cm.diagonal()/cm.sum(axis=1))

print(classification_report(y_test,y_predicted))

 accuracy
 0.82
 133928

 macro avg
 0.75
 0.64
 0.68
 133928

 weighted avg
 0.80
 0.82
 0.80
 133928

 $\textbf{from} \ \, \texttt{sklearn.ensemble} \ \, \textbf{import} \ \, \texttt{RandomForestClassifier}$

print("\nAccuracy:",accuracy_score(y_test,y_predicted))

precision recall f1-score support

 0.58
 0.30
 0.40
 18004

 0.84
 0.94
 0.89
 99357

 0.82
 0.69
 0.75
 16567

from sklearn.metrics import confusion_matrix
from sklearn.metrics import accuracy_score

from sklearn.metrics import classification_report

print("\nAccuracy:",accuracy_score(y_test,y_predicted))

pred = vectorizer.transform(password_pred)

apply TF-IDF vectorizer which has been fit with train data

print('Your password "{}" is weak.'.format(password))

print('Your password "{}" is Medium.'.format(password))

print('Your password "{}" is Strong.'.format(password))

Checking Performance of your model using confusion_matrix and accuracy_score

0, 1,

1, 0, 1, 1,

0, 1, 1,

1,

1, 1, 1, 1,

1, 1,

1, 1, 0,

In [16]:

def word_divide_char(inputs):

character.append(char)

character = []
for char in inputs:

return character

word_divide_char('kzde5577')

Out[16]: ['k', 'z', 'd', 'e', '5', '5', '7', '7']

Create a custom function to split input into characters of list

Import TF-IDF vectorizer to convert String data into numerical data

Example to explain working of custom function i.e., tokenizer