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In [1]: # This Python 3 environment comes with many helpful analytics libraries installe
# It is defined by the kaggle/python docker image: https://github.com/kaggle/doc
# For example, here's several helpful packages to load in

import numpy as np # linear algebra
import pandas as pd # data processing, CSV file I/O (e.g. pd.read_csv)

# Input data files are available in the "../input/" directory.
# For example, running this (by clicking run or pressing Shift+Enter) will list

import os
for dirname, _, filenames in os.walk('/kaggle/input'):
    for filename in filenames:
        print(os.path.join(dirname, filename))

# Any results you write to the current directory are saved as output
```

In [6]: train_data = pd.read_csv("/Users/usamaejaz/train.csv")
 train_data.head()

Out[6]:		PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cab
	0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	Nŧ
	1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th	female	38.0	1	0	PC 17599	71.2833	CI
	2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	Nŧ
	3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000	C1:
	4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500	Nŧ

In [7]: test_data = pd.read_csv("/Users/usamaejaz/test.csv")
 test_data.head()

Out[7]:		PassengerId	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarke
	0	892	3	Kelly, Mr. James	male	34.5	0	0	330911	7.8292	NaN	ı
	1	893	3	Wilkes, Mrs. James (Ellen Needs)	female	47.0	1	0	363272	7.0000	NaN	

```
PassengerId Pclass
                                           Sex Age SibSp Parch
                                                                   Ticket
                                                                            Fare Cabin Embarke
                                  Name
                                  Myles,
                                    Mr.
          2
                                                        0
                   894
                             2
                                          male 62.0
                                                              0
                                                                  240276
                                                                          9.6875
                                                                                  NaN
                                 Thomas
                                 Francis
                                Wirz, Mr.
          3
                   895
                                          male 27.0
                                                        0
                                                                          8.6625
                                                              0
                                                                  315154
                                                                                  NaN
                                  Albert
                               Hirvonen,
                                    Mrs.
          4
                   896
                             3 Alexander female 22.0
                                                        1
                                                               1 3101298 12.2875
                                                                                  NaN
                                 (Helga E
                               Lindqvist)
          women = train data.loc[train data.Sex == 'female']["Survived"]
 In [8]:
          rate women = sum(women)/len(women)
          print("% of women who survived:", rate_women)
          % of women who survived: 0.7420382165605095
 In [9]:
          men = train_data.loc[train_data.Sex == 'male']["Survived"]
          rate_men = sum(men)/len(men)
          print("% of men who survived:", rate men)
         % of men who survived: 0.18890814558058924
         from sklearn.ensemble import RandomForestClassifier
In [10]:
          y = train data["Survived"]
          features = ["Pclass", "Sex", "SibSp", "Parch"]
          X = pd.get dummies(train data[features])
          X test = pd.get dummies(test data[features])
          model = RandomForestClassifier(n estimators=100, max depth=5, random state=1)
          model.fit(X, y)
          predictions = model.predict(X test)
          output = pd.DataFrame({'PassengerId': test data.PassengerId, 'Survived': predict
          output.to csv('my submission.csv', index=False)
          print("Your submission was successfully saved!")
```

Your submission was successfully saved!

```
In [ ]:
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