```
import numpy as np
import pandas as pd
df =
pd.read csv('https://gist.githubusercontent.com/DiogoRibeiro7/c6590d0c
f119e87c39e31c21a9c0f3a8/raw/
4a8e3da267a0c1f0d650901d8295a5153bde8b21/PlayTennis.csv')
df
    Outlook Temperature Humidity
                             Wind Play Tennis
0
                             Weak
     Sunnv
                Hot
                      Hiah
                                        No
1
     Sunny
                Hot
                      High
                          Strong
                                        No
2
                Hot
                      High
                             Weak
                                       Yes
   0vercast
3
      Rain
               Mild
                      High
                             Weak
                                       Yes
4
                     Normal
      Rain
               Cool
                             Weak
                                       Yes
5
                     Normal Strong
      Rain
               Cool
                                        No
6
               Cool
                     Normal Strong
                                       Yes
   0vercast
7
               Mild
                      High
                             Weak
                                       No
     Sunny
8
     Sunny
               Cool
                     Normal
                             Weak
                                       Yes
9
               Mild
      Rain
                     Normal
                             Weak
                                       Yes
10
               Mild
                     Normal Strong
                                       Yes
     Sunny
11 Overcast
               Mild
                      High Strong
                                       Yes
12
   0vercast
               Hot
                     Normal
                             Weak
                                       Yes
13
      Rain
               Mild
                      High Strong
                                        No
pd.crosstab(df['Outlook'], df['Play
Tennis'],normalize='columns').stack().to dict()
{('Overcast', 'No'): 0.0,
('Rain', 'No'): 0.4,
D = \{\}
                                         'Wind']:
for i in ['Outlook','Temperature', 'Humidity',
 D.update(pd.crosstab(df[i], df['Play
Tennis'],normalize='columns').stack().to dict())
D
('Rain', 'No'): 0.4,
      ('Rain',
```