# 朴素贝叶斯Matlab实现

**利用朴素贝叶斯算法完成下面习题：**

使用朴素贝叶斯分类预测未知样本的类标号。给定Playtennis的训练样本集见下表。

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Day | Outlook | Temperature | Humidity | Wind | Playtennis |
| 1 | Sunny | Hot | High | Weak | No |
| 2 | Sunny | Hot | High | Strong | No |
| 3 | Overcast | Hot | High | Weak | Yes |
| 4 | Rain | Mild | High | Weak | Yes |
| 5 | Rain | Cool | Normal | Weak | Yes |
| 6 | Rain | Cool | Normal | Strong | No |
| 7 | Overcast | Cool | Normal | Strong | Yes |
| 8 | Sunny | Mild | High | Weak | No |
| 9 | Sunny | Cool | Normal | Weak | Yes |
| 10 | Rain | Mild | Normal | Weak | Yes |
| 11 | Sunny | Mild | Normal | Strong | Yes |
| 12 | Overcast | Mild | High | Strong | Yes |
| 13 | Overcast | Hot | Normal | Weak | Yes |
| 14 | Rain | Mild | High | Strong | No |

要分类的未知样本为

X={Outlook=Sunny，Temperature=Hot，Humidity=High，Wind=Strong}.