

## CAP446 Online Assignment 3

MM: 30

Last date: 10.12.2021

*Instructions:*

1. Handwritten solutions will be accepted
2. Upload in PDF format only
3. Copied/ Wrong uploads will not be considered
4. Uploads done only on UMS will be evaluated
5. Late submissions will not be considered

1. Consider the given data set and perform Naïve Bayesian Classification. Mention each step and calculation clearly.

(Outlook= Sunny, Temperature= Cool, Humidity= High, Wind= True ) [20]

Day	Outlook	Temperature	Humidity	Wind	Play Golf
1	Sunny	Hot	High	False	No
2	Sunny	Hot	High	True	No
3	Overcast	Hot	High	False	Yes
4	Rain	Mild	High	False	Yes
5	Rain	Cool	Normal	False	Yes
6	Rain	Cool	Normal	True	No
7	Overcast	Cool	Normal	True	Yes
8	Sunny	Mild	High	False	No
9	Sunny	Cool	Normal	False	Yes
10	Rain	Mild	Normal	False	Yes
11	Sunny	Mild	Normal	True	Yes
12	Overcast	Mild	High	True	Yes
13	Overcast	Hot	Normal	False	Yes
14	Rain	Mild	High	True	No

2. Briefly explain Decision trees and its terminologies by taking an example.  
[10]