Assignment 1

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Download all python codes from

https://github.com/Dhatri-nanda/Assgn1/blob/main/AI1103-Probability-and-random-variables/codes.py

and latex-tikz codes from

https://github.com/Dhatri-nanda/Assgn1/blob/main/AI1103-Probability-and-random-variables/assignment1.tex

1 Problem

If P(E) = 0.05. What is the probability of 'not E'?

2 Solution

Given probability of event E

$$P(E) = 0.05 \tag{2.0.1}$$

Then the probability of 'not E'

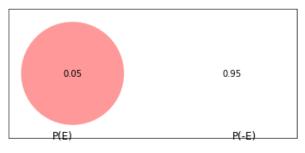
$$= P(E')$$
 (2.0.2)

$$= 1 - P(E) \tag{2.0.3}$$

By substituting (2.0.1) in (2.0.3)

The probability of not E = 1 - 0.05 = 0.95

In the below venn diagram, the coloured region represents the probability of event E, while the white region represents the probability of 'not E'.



Venn diagram