

AI1110 Assignment 3

Abhinav Yadav (cs21btech11002)

[CBSE class 9 Exercise 15.1 Q 7]

To know the opinion of the students about the subject statistics, a survey of 200 students was conducted. The data is recorded in the following table.

Opinion	Number of Students
Like	135
Dislike	65

TABLE I

Find the probability that a student chosen at random

- 1) Likes Statistics,

Solution: Let the opinion of the selected student be denoted by the random variable $X \in \{Like, Dislike\}$.

The desired probability is given by

$$\Pr(X = Like) = \frac{135}{200} = \frac{27}{40} \quad (1)$$

- 2) Does not like it.

Solution: The desired probability is given by

$$\Pr(X = Dislike) = \frac{65}{200} = \frac{13}{40} \quad (2)$$