Mid Term Examination

KDD CS 513-A

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subject - Knowledge discovery and data mining

Qus-8.

   A. Estimate the number of cases

   - USA: Population: 331 Million , Cases per Million: 381.24

        Total Number of Cases in USA = Population * Cases per Million

                                 = 331*381.24

                                 = 1,26,190.44

   - Italy: Population: 60 Million , Cases per Million: 1463.97

        Total Number of Cases in Italy = Population * Cases per Million

                                 = 60*1463.97

                                 = 87,838.22

   - Spain: Population: 47 Million , Cases per Million: 1590.24

        Total Number of Cases in Italy = Population * Cases per Million

                                 = 47*1590.24

                                 = 74,741.28

   B. Given the person is living in USA what is the probability, what is the probability that the person is infected with COVID19.

P (Infected / Living = USA) = 1,26,190.44 / 331 Million

= 0.00038

C. Given the person is diagnosed with the COVID19, what is the probability that the person lives in the US.

P (USA / Infected = Y) = 1,26,190.44 / (1,26,190.44 + 87,838.2 + 74,741.28)

= 0.43699