



VIT[®]

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

B.Tech - Winter Semester

Academic Year: 2021-2022

CSE3024- Web Mining

Digital Assignment

1. To divide the given dataset into two clusters, use the K means clustering algorithm. Assume that the initial centroids are (40, 71) and (36, 68). Utilize the Euclidean metric. Iterate two times.

City	Temperature (°C)	Humidity (%)
Vellore	39	67
Chennai	40	71
Patna	33	54
Banaras	32	53
Mumbai	35	66
Vijayawada	36	68
Bareli	32.5	60
Bhopal	31	51

2. Draw a State-transition probability matrix using the given Markov Chain to show the transition probabilities of each state. If anyone eats Dahl today, what are the chances that pasta will be served tomorrow, and burritos will be served the next day?

