

Week – 6 – KNN

| Weight(x2) | Height(y2) | Class |
|------------|------------|-------------|
| 51 | 167 | Underweight |
| 62 | 182 | Normal |
| 69 | 176 | Normal |
| 64 | 173 | Normal |
| 65 | 172 | Normal |
| 56 | 174 | Underweight |
| 58 | 169 | Normal |
| 57 | 173 | Normal |
| 55 | 170 | Normal |

Write Python code to find the class of (weight=57, Height=170) using the k-nearest neighbour algorithm.

- I. Consider using different distance measures and tabulate the results.
- II. What is the K-value used? How do you find the best k value? Justify your answer.