

Tutorial 3

1. Suppose that the data for analysis includes the attribute age. The age values for the data tuples are (in increasing order) 13, 15, 16, 16, 19, X, 20, 21, 22, 22, 25, 25, 25, 30, 33, 33, 35, 35, 35, 35, 36, Y, 45, 46, 52, 70.
 - a. Explain imputation using KNN. Find the value of the X and Y for above data using the same.
 - b. Explain missing value replacement (imputation) with an example. Also, find the value of the X and Y for above data using median value replacement.
2. Suppose that the data for analysis includes the attribute Colour such as red, green, blue, black, red, green, green, green, blue, red, black, white.
 - a. Explain Most frequent value replacement with example. Also, find the value of the X and Y for above data using Most frequent value replacement.
 - b. Explain global constant replacement with an example. Also, find the value of the X and Y for above data using global constant value replacement (Consider Red as global constant).
3. Analyse above techniques using Orange Data Mining framework.