The “breast cancer dataset” in CANVAS was obtained from the University of Wisconsin Hospitals, Madison from Dr. William H. Wolberg. The features in the dataset, described below, have been categorized from 1 to 10.

Use the knn methodology (k=3,5 and 10) to develop a classification models for the Diagnosis.

Use 30% test 70% training data.

Features Domain

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Sample code number id number

F1. Clump Thickness 1 - 10

F2. Uniformity of Cell Size 1 - 10

F3. Uniformity of Cell Shape 1 - 10

F4. Marginal Adhesion 1 - 10

F5. Single Epithelial Cell Size 1 - 10

F6. Bare Nuclei 1 - 10

F7. Bland Chromatin 1 - 10

F8. Normal Nucleoli 1 - 10

F9. Mitoses 1 - 10

Diagnosis Class: (2 for benign, 4 for malignant)