#Inputs (features):

Input names:

#Outputs (Classes):

Output names (num label):

MB (index starts from 0):

MB (index starts from 1):

MB\_CD (index starts from 0):

MB\_CD (index starts from 1):

***Authorship:***

#Inputs (features): 70

Input names: X1-X70

#Outputs (Classes): 4

Output names (num label): "Austen"(1), "London"(2), "Milton" (3), "Shakespeare" (4)

MB (index starts from 0):

MB (index starts from 1):

MB\_CD (index starts from 0):

MB\_CD (index starts from 1):

***Breast:***

#Inputs (features): 10

Input names: Clump Thickness (0), Uniformity of Cell Size (1), Uniformity of Cell Shape (2), Marginal Adhesion (3), Single Epithelial Cell Size (4), Bare Nuclei (5), Bland Chromatin (6), Normal Nucleoli (7), Mitoses (8)

#Outputs (Classes): 2

Output names (num label): benign (1), malignant (2)

MB (index starts from 0):

MB (index starts from 1):

MB\_CD (index starts from 0):

MB\_CD (index starts from 1):

***Dry\_bean:***

#Inputs (features): 16

Input names: Area (0), Perimeter (1), MajorAxisLength (2), MinorAxisLength(3), AspectRation (4), Eccentricity (5), ConvexArea (6), EquivDiameter (7), Extent (8), Solidity (9) , roundness (10), Compactness (11), ShapeFactor1 (12), ShapeFactor2 (13), ShapeFactor3 (14), ShapeFactor4 (15)

#Outputs (Classes): 7

Output names (num label): "BARBUNYA" (1), "BOMBAY" (2), "CALI" (3), "DERMASON" (4), "HOROZ" (5), "SEKER" (6), "SIRA" (7)

MB (index starts from 0):

MB (index starts from 1):

MB\_CD (index starts from 0):

MB\_CD (index starts from 1):

***Ecoli:***

#Inputs (features): 7

Input names: mcg (0), gvh (1), lip (2), chg (3), aac (4), alm1 (5), alm2 (6).

#Outputs (Classes): 8

Output names (num label):

"cp" (1), "im" (2), "imL" (3), "imS" (4), "imU" (5), "om" (6), "omL" (7), "pp" (8)

MB (index starts from 0):

MB (index starts from 1):

MB\_CD (index starts from 0):

MB\_CD (index starts from 1):

***Glass:***

#Inputs (features): 9

Input names: RI (0), Na (1), Mg (2), Al (3), Si (4), K (5), Ca (6), Ba (7), Fe (8)

#Outputs (Classes): 6

Output names (num label): 1(1), 2(2), 3(3), 5(4), 6(5), 7(6)

MB (index starts from 0):

MB (index starts from 1):

MB\_CD (index starts from 0):

MB\_CD (index starts from 1):

***HTRU2:***

#Inputs (features):

Input names: ip\_mean (0), ip\_sd (1), ip\_kurt (2), ip\_skew (3), snr\_mean (4), snr\_sd (5), snr\_kurt (6), snr\_skew (7)

#Outputs (Classes): 2

Output names (num label): 0(1), 1(2)

MB (index starts from 0):

MB (index starts from 1):

MB\_CD (index starts from 0):

MB\_CD (index starts from 1):

***Haberman:***

#Inputs (features): 3

Input names: Age(0), Year\_of\_operation(1), Number\_of\_positive\_axillary\_nodes\_detected(2)

#Outputs (Classes): 2

Output names (num label): 1(1), 2(2)

MB (index starts from 0):

MB (index starts from 1):

MB\_CD (index starts from 0):

MB\_CD (index starts from 1):

***Ionosphere:***

#Inputs (features): 34

Input names: X1-X34

#Outputs (Classes):2

Output names (num label): b(0), g(1)

MB (index starts from 0):

MB (index starts from 1):

MB\_CD (index starts from 0):

MB\_CD (index starts from 1):

***Iris:***

#Inputs (features): 4

Input names: SepalLengthCm(0), SepalWidthCm(1), PetalLengthCm (2), PetalWidthCm (3)

#Outputs (Classes): 3

Output names (num label): "Iris-setosa" (1) "Iris-versicolor" (2) "Iris-virginica" (3)

MB (index starts from 0):

MB (index starts from 1):

MB\_CD (index starts from 0):

MB\_CD (index starts from 1):

***Liver\_disorder:***

#Inputs (features): 6

Input names: mcv (0), alkphos (1), sgpt (2), sgot (3), gammagt (4), drinks (5)

#Outputs (Classes): 2

Output names (num label): 1(1), 2(2)

MB (index starts from 0):

MB (index starts from 1):

MB\_CD (index starts from 0):

MB\_CD (index starts from 1):

***Opt\_digits:***

#Inputs (features): 64

Input names: X1-X64

#Outputs (Classes): 10

Output names (num label): 0(1), 1(2), 2(3), 3(4), 4(5), 5(6), 6(7), 7(8), 8(9), 9(10)

MB (index starts from 0):

MB (index starts from 1):

MB\_CD (index starts from 0):

MB\_CD (index starts from 1):

***Page\_blocks:***

#Inputs (features): 10

Input names: height(0), length(1), area(2), eccen(3), p\_black(4), p\_and(5), mean\_tr(6), blackpix(7), blackand(8), wb\_trans(9)

#Outputs (Classes): 5

Output names (num label): 1, 2, 3, 4, 5. (same)

MB (index starts from 0):

MB (index starts from 1):

MB\_CD (index starts from 0):

MB\_CD (index starts from 1):

***Penditgits:***

#Inputs (features): 16

Input names: X1-X16

#Outputs (Classes): 10

Output names (num label): 0(1), 1(2), 2(3), 3(4), 4(5), 5(6), 6(7), 7(8), 8(9), 9(10)

MB (index starts from 0):

MB (index starts from 1):

MB\_CD (index starts from 0):

MB\_CD (index starts from 1):

***Pima\_diabetes:***

#Inputs (features):8

Input names: Pregnancies(0), Glucose(1), BloodPressure(2), SkinThickness(3), Insulin(4), BMI(5), DiabetesPedigreeFunction(6), Age(7)

#Outputs (Classes): 2

Output names (num label): 0(1), 1(2)

MB (index starts from 0):

MB (index starts from 1):

MB\_CD (index starts from 0):

MB\_CD (index starts from 1):

***Segment:***

#Inputs (features): 19

Input names: region-centroid-col(0), region-centroid-row(1), region-pixel-count(2), short-line-density-5(3), short-line-density-2(4), vedge-mean(5), vegde-sd(6), hedge-mean(7), hedge-sd(8), intensity-mean(9), rawred-mean(10), rawblue-mean(11), rawgreen-mean(12), exred-mean(13), exblue-mean(14), exgreen-mean(15), value-mean(16), saturatoin-mean(17), hue-mean(18)

#Outputs (Classes): 7

Output names (num label): 1-7

MB (index starts from 0):

MB (index starts from 1):

MB\_CD (index starts from 0):

MB\_CD (index starts from 1):

***Sonar:***

#Inputs (features): 60

Input names: X1-X60

#Outputs (Classes): 2

Output names (num label): M(1), R(2)

MB (index starts from 0):

MB (index starts from 1):

MB\_CD (index starts from 0):

MB\_CD (index starts from 1):

***Vehicle:***

#Inputs (features): 18

Input names: X1-X18

#Outputs (Classes): 4

Output names (num label): "bus"(1), "opel"(2), "saab"(3), "van"(4)

MB (index starts from 0):

MB (index starts from 1):

MB\_CD (index starts from 0):

MB\_CD (index starts from 1):

Vowel:

#Inputs (features): 12

Input names: X1-X12

#Outputs (Classes): 11

Output names (num label): "0"(1), "1"(2), "10"(3), "2"(4), "3"(5), "4"(6), "5"(7), "6"(8), "7"(9), "8"(10), "9"(11)

MB (index starts from 0):

MB (index starts from 1):

MB\_CD (index starts from 0):

MB\_CD (index starts from 1):

***Waveform\_5000:***

#Inputs (features):40

Input names: X1-X40

#Outputs (Classes): 3

Output names (num label): 0(1), 1(2), 2(3)

MB (index starts from 0):

MB (index starts from 1):

MB\_CD (index starts from 0):

MB\_CD (index starts from 1):

***Wine:***

#Inputs (features): 13

Input names: Alcohol(0), Malic\_acid(1), Ash(2), Alcalinity\_of\_ash(3), Magnesium(4), Total\_phenols(5), Flavanoids(6), Nonflavanoid\_phenols(7), Proanthocyanins(8), Color\_intensity(9), Hue(10), Diluted\_Wine(11), Proline(12)

#Outputs (Classes): 3

Output names (num label): 1, 2, 3

MB (index starts from 0):

MB (index starts from 1):

MB\_CD (index starts from 0):

MB\_CD (index starts from 1):

***Winequality\_red\_white2:***

#Inputs (features): 12

Input names: fixed\_acidity(0), volatile\_acidity(1), citric\_acid(2), residual\_sugar(3), chlorides(4), free\_sulfur\_dioxide(5), total\_sulfur\_dioxide(6), density(7), pH(8), sulphates(9), alcohol(10), type(11)

Note, for the type feature, red is 1, white is 2

#Outputs (Classes): 7

Output names (num label): 3 (1), 4(2), 5(3), 6(4), 7(5), 8(6), 9(7)

MB (index starts from 0):

MB (index starts from 1):

MB\_CD (index starts from 0):

MB\_CD (index starts from 1):