# For this project, you should perform exploratory data analysis on different file types like XML,

# JSON, TEXT, .DAT (data will be provided by AcadGild)

# Iris.xml ,iris.dat.

**# Part I**

# There are 20 files with .dat extention. You have to read all the files in to single dataframe.

**Input:**

setwd("C:/Users/admin/Documents/GitHub/iris\_dat")

File <- list.files(getwd(), ".dat")

rr = lapply(File, read.delim)

print(rr)

**Output:**

[[10]]

X.relation.iris.MV

1 @attribute SepalLength real [4.3, 7.9]

2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

9 5.4,3.9,1.7,0.4,Iris-setosa

10 5.7,3.8,1.7,0.3,Iris-setosa

11 4.8,3.4,1.9,0.2,Iris-setosa

12 5.5,4.2,1.4,0.2,Iris-setosa

13 5.3,3.7,1.5,0.2,Iris-setosa

14 6.0,2.2,4.0,1.0,Iris-versicolor

15 6.1,2.9,4.7,1.4,Iris-versicolor

16 6.0,2.7,5.1,1.6,Iris-versicolor

17 6.1,3.0,4.6,1.4,Iris-versicolor

18 5.7,2.9,4.2,1.3,Iris-versicolor

19 7.3,2.9,6.3,1.8,Iris-virginica

20 6.5,3.2,5.1,2.0,Iris-virginica

21 6.4,3.2,5.3,2.3,Iris-virginica

22 7.2,3.2,6.0,1.8,Iris-virginica

23 5.9,3.0,5.1,1.8,Iris-virginica

[[11]]

X.relation.iris.MV

1 @attribute SepalLength real [4.3, 7.9]

2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

9 5.1,3.5,1.4,0.2,Iris-setosa

10 4.9,3.0,1.4,0.2,Iris-setosa

11 4.7,<null>,1.3,0.2,Iris-setosa

12 4.6,3.1,1.5,0.2,Iris-setosa

13 5.0,3.6,1.4,0.2,Iris-setosa

14 5.4,3.9,1.7,0.4,Iris-setosa

15 4.6,3.4,1.4,0.3,Iris-setosa

16 4.4,2.9,1.4,0.2,Iris-setosa

17 4.9,3.1,<null>,0.1,Iris-setosa

18 5.4,<null>,1.5,0.2,Iris-setosa

19 <null>,3.4,1.6,0.2,Iris-setosa

20 4.8,3.0,1.4,0.1,Iris-setosa

21 5.8,4.0,1.2,0.2,Iris-setosa

22 5.7,4.4,1.5,<null>,Iris-setosa

23 5.4,3.9,1.3,0.4,Iris-setosa

24 5.1,3.5,1.4,0.3,Iris-setosa

25 5.7,3.8,1.7,0.3,Iris-setosa

26 5.1,3.8,<null>,0.3,Iris-setosa

27 5.4,3.4,1.7,0.2,Iris-setosa

28 <null>,3.7,1.5,0.4,Iris-setosa

29 4.6,3.6,1.0,0.2,Iris-setosa

30 5.1,3.3,1.7,0.5,Iris-setosa

31 4.8,3.4,1.9,0.2,Iris-setosa

32 5.0,<null>,1.6,0.2,Iris-setosa

33 5.0,3.4,1.6,0.4,Iris-setosa

34 <null>,3.5,1.5,0.2,Iris-setosa

35 5.2,3.4,1.4,0.2,Iris-setosa

36 4.7,3.2,1.6,<null>,Iris-setosa

37 5.4,3.4,<null>,0.4,Iris-setosa

38 5.2,4.1,1.5,0.1,Iris-setosa

39 <null>,4.2,1.4,0.2,Iris-setosa

40 5.0,3.2,1.2,0.2,Iris-setosa

41 5.5,3.5,1.3,<null>,Iris-setosa

42 4.9,3.1,1.5,0.1,Iris-setosa

43 4.4,3.0,1.3,0.2,Iris-setosa

44 5.0,<null>,1.3,<null>,Iris-setosa

45 4.5,<null>,1.3,0.3,Iris-setosa

46 4.4,3.2,1.3,0.2,Iris-setosa

47 <null>,3.5,<null>,0.6,Iris-setosa

48 <null>,3.8,1.9,0.4,Iris-setosa

49 4.8,3.0,1.4,0.3,Iris-setosa

50 5.1,3.8,1.6,0.2,Iris-setosa

51 4.6,3.2,<null>,0.2,Iris-setosa

52 5.3,3.7,1.5,0.2,Iris-setosa

53 5.0,3.3,1.4,0.2,Iris-setosa

54 7.0,3.2,<null>,1.4,Iris-versicolor

55 6.4,3.2,<null>,1.5,Iris-versicolor

56 6.9,3.1,4.9,1.5,Iris-versicolor

57 5.5,2.3,4.0,1.3,Iris-versicolor

58 6.5,2.8,4.6,1.5,Iris-versicolor

59 5.7,2.8,4.5,1.3,Iris-versicolor

60 6.3,3.3,<null>,1.6,Iris-versicolor

61 4.9,2.4,3.3,1.0,Iris-versicolor

62 6.6,2.9,4.6,1.3,Iris-versicolor

63 <null>,2.7,3.9,1.4,Iris-versicolor

64 5.0,2.0,3.5,1.0,Iris-versicolor

65 5.9,3.0,4.2,1.5,Iris-versicolor

66 6.0,2.2,4.0,<null>,Iris-versicolor

67 6.1,2.9,4.7,1.4,Iris-versicolor

68 5.6,2.9,3.6,1.3,Iris-versicolor

69 6.7,3.1,4.4,1.4,Iris-versicolor

70 5.6,3.0,<null>,1.5,Iris-versicolor

71 6.2,2.2,<null>,1.5,Iris-versicolor

72 5.6,2.5,3.9,1.1,Iris-versicolor

73 6.1,2.8,4.0,1.3,Iris-versicolor

74 6.3,2.5,4.9,1.5,Iris-versicolor

75 6.1,2.8,4.7,1.2,Iris-versicolor

76 6.6,3.0,4.4,1.4,Iris-versicolor

77 6.8,2.8,4.8,1.4,Iris-versicolor

78 6.7,3.0,5.0,<null>,Iris-versicolor

79 6.0,2.9,4.5,1.5,Iris-versicolor

80 5.7,2.6,<null>,1.0,Iris-versicolor

81 <null>,2.4,3.7,1.0,Iris-versicolor

82 6.0,2.7,5.1,1.6,Iris-versicolor

83 5.4,<null>,4.5,1.5,Iris-versicolor

84 <null>,3.4,4.5,1.6,Iris-versicolor

85 6.7,3.1,4.7,1.5,Iris-versicolor

86 <null>,2.3,4.4,1.3,Iris-versicolor

87 5.6,3.0,4.1,1.3,Iris-versicolor

88 5.5,2.5,4.0,1.3,Iris-versicolor

89 5.5,2.6,4.4,1.2,Iris-versicolor

90 6.1,3.0,4.6,1.4,Iris-versicolor

91 5.8,2.6,4.0,1.2,Iris-versicolor

92 5.0,<null>,3.3,1.0,Iris-versicolor

93 5.6,2.7,4.2,1.3,Iris-versicolor

94 5.7,3.0,4.2,1.2,Iris-versicolor

95 5.7,2.9,4.2,1.3,Iris-versicolor

96 6.2,2.9,4.3,1.3,Iris-versicolor

97 5.1,2.5,3.0,1.1,Iris-versicolor

98 5.7,2.8,<null>,1.3,Iris-versicolor

99 6.3,3.3,6.0,2.5,Iris-virginica

100 5.8,<null>,5.1,1.9,Iris-virginica

101 7.1,<null>,5.9,2.1,Iris-virginica

102 6.5,3.0,5.8,2.2,Iris-virginica

103 7.6,3.0,6.6,2.1,Iris-virginica

104 <null>,2.5,4.5,1.7,Iris-virginica

105 7.3,2.9,6.3,1.8,Iris-virginica

106 6.7,2.5,5.8,1.8,Iris-virginica

107 7.2,3.6,6.1,2.5,Iris-virginica

108 6.5,3.2,5.1,<null>,Iris-virginica

109 6.4,2.7,<null>,1.9,Iris-virginica

110 6.8,3.0,<null>,2.1,Iris-virginica

111 <null>,2.5,5.0,<null>,Iris-virginica

112 5.8,2.8,5.1,2.4,Iris-virginica

113 6.4,3.2,5.3,2.3,Iris-virginica

114 6.5,3.0,5.5,1.8,Iris-virginica

115 7.7,3.8,6.7,2.2,Iris-virginica

116 7.7,2.6,<null>,2.3,Iris-virginica

117 6.0,2.2,5.0,1.5,Iris-virginica

118 6.9,<null>,<null>,2.3,Iris-virginica

119 5.6,2.8,4.9,2.0,Iris-virginica

120 7.7,2.8,6.7,2.0,Iris-virginica

121 6.3,2.7,4.9,1.8,Iris-virginica

122 6.7,3.3,5.7,2.1,Iris-virginica

123 7.2,3.2,6.0,1.8,Iris-virginica

124 6.2,2.8,4.8,1.8,Iris-virginica

125 <null>,3.0,4.9,1.8,Iris-virginica

126 6.4,2.8,<null>,2.1,Iris-virginica

127 <null>,3.0,5.8,<null>,Iris-virginica

128 7.4,2.8,6.1,1.9,Iris-virginica

129 6.3,2.8,5.1,1.5,Iris-virginica

130 6.1,2.6,5.6,1.4,Iris-virginica

131 7.7,<null>,6.1,2.3,Iris-virginica

132 6.0,3.0,4.8,1.8,Iris-virginica

133 6.9,3.1,5.4,<null>,Iris-virginica

134 6.7,3.1,5.6,2.4,Iris-virginica

135 6.9,3.1,<null>,2.3,Iris-virginica

136 5.8,2.7,<null>,1.9,Iris-virginica

137 6.8,3.2,5.9,2.3,Iris-virginica

138 6.7,3.3,5.7,2.5,Iris-virginica

139 6.7,3.0,5.2,2.3,Iris-virginica

140 6.3,2.5,5.0,1.9,Iris-virginica

141 6.5,3.0,5.2,2.0,Iris-virginica

142 6.2,3.4,5.4,2.3,Iris-virginica

143 5.9,3.0,5.1,1.8,Iris-virginica

[[12]]

X.relation.iris.MV

1 @attribute SepalLength real [4.3, 7.9]

2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

9 5.0,3.4,1.5,0.2,Iris-setosa

10 4.3,3.0,1.1,0.1,Iris-setosa

11 4.8,3.1,1.6,0.2,Iris-setosa

12 4.9,3.1,1.5,0.1,Iris-setosa

13 5.1,3.4,1.5,0.2,Iris-setosa

14 5.8,2.7,4.1,1.0,Iris-versicolor

15 5.9,3.2,4.8,1.8,Iris-versicolor

16 6.4,2.9,4.3,1.3,Iris-versicolor

17 5.5,2.4,3.8,1.1,Iris-versicolor

18 5.8,2.7,3.9,1.2,Iris-versicolor

19 6.3,2.9,5.6,1.8,Iris-virginica

20 7.9,3.8,6.4,2.0,Iris-virginica

21 6.4,2.8,5.6,2.2,Iris-virginica

22 6.3,3.4,5.6,2.4,Iris-virginica

23 6.4,3.1,5.5,1.8,Iris-virginica

[[13]]

X.relation.iris.MV

1 @attribute SepalLength real [4.3, 7.9]

2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

9 5.1,3.5,1.4,0.2,Iris-setosa

10 4.9,3.0,1.4,0.2,Iris-setosa

11 4.7,<null>,1.3,0.2,Iris-setosa

12 5.0,3.6,1.4,0.2,Iris-setosa

13 5.4,3.9,1.7,0.4,Iris-setosa

14 5.0,3.4,1.5,0.2,Iris-setosa

15 4.4,2.9,1.4,0.2,Iris-setosa

16 4.9,3.1,1.5,0.1,Iris-setosa

17 4.8,3.4,<null>,0.2,Iris-setosa

18 4.8,<null>,1.4,0.1,Iris-setosa

19 <null>,3.0,1.1,0.1,Iris-setosa

20 5.8,4.0,1.2,0.2,Iris-setosa

21 5.7,4.4,1.5,0.4,Iris-setosa

22 5.4,3.9,1.3,<null>,Iris-setosa

23 5.1,3.5,1.4,0.3,Iris-setosa

24 5.7,3.8,1.7,0.3,Iris-setosa

25 5.1,3.8,1.5,0.3,Iris-setosa

26 5.1,3.7,<null>,0.4,Iris-setosa

27 4.6,3.6,1.0,0.2,Iris-setosa

28 <null>,3.3,1.7,0.5,Iris-setosa

29 4.8,3.4,1.9,0.2,Iris-setosa

30 5.0,3.4,1.6,0.4,Iris-setosa

31 5.2,3.5,1.5,0.2,Iris-setosa

32 5.2,<null>,1.4,0.2,Iris-setosa

33 4.7,3.2,1.6,0.2,Iris-setosa

34 <null>,3.1,1.6,0.2,Iris-setosa

35 5.4,3.4,1.5,0.4,Iris-setosa

36 5.2,4.1,1.5,<null>,Iris-setosa

37 5.5,4.2,<null>,0.2,Iris-setosa

38 4.9,3.1,1.5,0.1,Iris-setosa

39 <null>,3.2,1.2,0.2,Iris-setosa

40 5.5,3.5,1.3,0.2,Iris-setosa

41 4.9,3.1,1.5,<null>,Iris-setosa

42 4.4,3.0,1.3,0.2,Iris-setosa

43 5.1,3.4,1.5,0.2,Iris-setosa

44 5.0,<null>,1.3,<null>,Iris-setosa

45 4.5,<null>,1.3,0.3,Iris-setosa

46 4.4,3.2,1.3,0.2,Iris-setosa

47 <null>,3.5,<null>,0.6,Iris-setosa

48 <null>,3.8,1.9,0.4,Iris-setosa

49 4.8,3.0,1.4,0.3,Iris-setosa

50 5.1,3.8,1.6,0.2,Iris-setosa

51 4.6,3.2,<null>,0.2,Iris-setosa

52 5.3,3.7,1.5,0.2,Iris-setosa

53 5.0,3.3,1.4,0.2,Iris-setosa

54 7.0,3.2,<null>,1.4,Iris-versicolor

55 6.4,3.2,<null>,1.5,Iris-versicolor

56 5.5,2.3,4.0,1.3,Iris-versicolor

57 6.5,2.8,4.6,1.5,Iris-versicolor

58 5.7,2.8,4.5,1.3,Iris-versicolor

59 6.3,3.3,4.7,1.6,Iris-versicolor

60 4.9,2.4,<null>,1.0,Iris-versicolor

61 6.6,2.9,4.6,1.3,Iris-versicolor

62 5.2,2.7,3.9,1.4,Iris-versicolor

63 <null>,3.0,4.2,1.5,Iris-versicolor

64 6.0,2.2,4.0,1.0,Iris-versicolor

65 6.1,2.9,4.7,1.4,Iris-versicolor

66 5.6,2.9,3.6,<null>,Iris-versicolor

67 6.7,3.1,4.4,1.4,Iris-versicolor

68 5.6,3.0,4.5,1.5,Iris-versicolor

69 5.8,2.7,4.1,1.0,Iris-versicolor

70 6.2,2.2,<null>,1.5,Iris-versicolor

71 5.6,2.5,<null>,1.1,Iris-versicolor

72 5.9,3.2,4.8,1.8,Iris-versicolor

73 6.1,2.8,4.0,1.3,Iris-versicolor

74 6.3,2.5,4.9,1.5,Iris-versicolor

75 6.4,2.9,4.3,1.3,Iris-versicolor

76 6.6,3.0,4.4,1.4,Iris-versicolor

77 6.8,2.8,4.8,1.4,Iris-versicolor

78 6.7,3.0,5.0,<null>,Iris-versicolor

79 6.0,2.9,4.5,1.5,Iris-versicolor

80 5.7,2.6,<null>,1.0,Iris-versicolor

81 <null>,2.4,3.8,1.1,Iris-versicolor

82 5.8,2.7,3.9,1.2,Iris-versicolor

83 6.0,<null>,5.1,1.6,Iris-versicolor

84 <null>,3.0,4.5,1.5,Iris-versicolor

85 6.0,3.4,4.5,1.6,Iris-versicolor

86 <null>,3.1,4.7,1.5,Iris-versicolor

87 6.3,2.3,4.4,1.3,Iris-versicolor

88 5.6,3.0,4.1,1.3,Iris-versicolor

89 5.5,2.5,4.0,1.3,Iris-versicolor

90 5.5,2.6,4.4,1.2,Iris-versicolor

91 6.1,3.0,4.6,1.4,Iris-versicolor

92 5.8,<null>,4.0,1.2,Iris-versicolor

93 5.0,2.3,3.3,1.0,Iris-versicolor

94 5.6,2.7,4.2,1.3,Iris-versicolor

95 5.7,3.0,4.2,1.2,Iris-versicolor

96 5.7,2.9,4.2,1.3,Iris-versicolor

97 5.1,2.5,3.0,1.1,Iris-versicolor

98 5.7,2.8,<null>,1.3,Iris-versicolor

99 6.3,3.3,6.0,2.5,Iris-virginica

100 5.8,<null>,5.1,1.9,Iris-virginica

101 7.1,<null>,5.9,2.1,Iris-virginica

102 6.3,2.9,5.6,1.8,Iris-virginica

103 6.5,3.0,5.8,2.2,Iris-virginica

104 <null>,3.0,6.6,2.1,Iris-virginica

105 4.9,2.5,4.5,1.7,Iris-virginica

106 7.3,2.9,6.3,1.8,Iris-virginica

107 6.5,3.2,5.1,2.0,Iris-virginica

108 6.4,2.7,5.3,<null>,Iris-virginica

109 5.7,2.5,<null>,2.0,Iris-virginica

110 5.8,2.8,<null>,2.4,Iris-virginica

111 <null>,3.2,5.3,<null>,Iris-virginica

112 6.5,3.0,5.5,1.8,Iris-virginica

113 7.7,3.8,6.7,2.2,Iris-virginica

114 7.7,2.6,6.9,2.3,Iris-virginica

115 6.0,2.2,5.0,1.5,Iris-virginica

116 6.9,3.2,<null>,2.3,Iris-virginica

117 5.6,2.8,4.9,2.0,Iris-virginica

118 7.7,<null>,<null>,2.0,Iris-virginica

119 6.7,3.3,5.7,2.1,Iris-virginica

120 7.2,3.2,6.0,1.8,Iris-virginica

121 6.2,2.8,4.8,1.8,Iris-virginica

122 6.1,3.0,4.9,1.8,Iris-virginica

123 7.2,3.0,5.8,1.6,Iris-virginica

124 7.4,2.8,6.1,1.9,Iris-virginica

125 <null>,3.8,6.4,2.0,Iris-virginica

126 6.4,2.8,<null>,2.2,Iris-virginica

127 <null>,2.8,5.1,<null>,Iris-virginica

128 6.1,2.6,5.6,1.4,Iris-virginica

129 7.7,3.0,6.1,2.3,Iris-virginica

130 6.3,3.4,5.6,2.4,Iris-virginica

131 6.4,<null>,5.5,1.8,Iris-virginica

132 6.0,3.0,4.8,1.8,Iris-virginica

133 6.9,3.1,5.4,<null>,Iris-virginica

134 6.7,3.1,5.6,2.4,Iris-virginica

135 6.9,3.1,<null>,2.3,Iris-virginica

136 5.8,2.7,<null>,1.9,Iris-virginica

137 6.8,3.2,5.9,2.3,Iris-virginica

138 6.7,3.3,5.7,2.5,Iris-virginica

139 6.7,3.0,5.2,2.3,Iris-virginica

140 6.3,2.5,5.0,1.9,Iris-virginica

141 6.5,3.0,5.2,2.0,Iris-virginica

142 6.2,3.4,5.4,2.3,Iris-virginica

143 5.9,3.0,5.1,1.8,Iris-virginica

[[14]]

X.relation.iris.MV

1 @attribute SepalLength real [4.3, 7.9]

2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

9 4.6,3.1,1.5,0.2,Iris-setosa

10 4.6,3.4,1.4,0.3,Iris-setosa

11 5.4,3.7,1.5,0.2,Iris-setosa

12 5.4,3.4,1.7,0.2,Iris-setosa

13 5.0,3.0,1.6,0.2,Iris-setosa

14 6.9,3.1,4.9,1.5,Iris-versicolor

15 5.0,2.0,3.5,1.0,Iris-versicolor

16 6.1,2.8,4.7,1.2,Iris-versicolor

17 5.5,2.4,3.7,1.0,Iris-versicolor

18 6.2,2.9,4.3,1.3,Iris-versicolor

19 6.7,2.5,5.8,1.8,Iris-virginica

20 7.2,3.6,6.1,2.5,Iris-virginica

21 6.8,3.0,5.5,2.1,Iris-virginica

22 6.3,2.7,4.9,1.8,Iris-virginica

23 6.4,2.8,5.6,2.1,Iris-virginica

[[15]]

X.relation.iris.MV

1 @attribute SepalLength real [4.3, 7.9]

2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

9 5.1,3.5,1.4,0.2,Iris-setosa

10 4.9,3.0,1.4,0.2,Iris-setosa

11 4.7,<null>,1.3,0.2,Iris-setosa

12 4.6,3.1,1.5,0.2,Iris-setosa

13 5.0,3.6,1.4,0.2,Iris-setosa

14 5.4,3.9,1.7,0.4,Iris-setosa

15 4.6,3.4,1.4,0.3,Iris-setosa

16 5.0,3.4,1.5,0.2,Iris-setosa

17 4.4,2.9,<null>,0.2,Iris-setosa

18 4.9,<null>,1.5,0.1,Iris-setosa

19 <null>,3.7,1.5,0.2,Iris-setosa

20 4.8,3.4,1.6,0.2,Iris-setosa

21 4.8,3.0,1.4,0.1,Iris-setosa

22 4.3,3.0,1.1,<null>,Iris-setosa

23 5.8,4.0,1.2,0.2,Iris-setosa

24 5.7,4.4,1.5,0.4,Iris-setosa

25 5.1,3.5,1.4,0.3,Iris-setosa

26 5.7,3.8,<null>,0.3,Iris-setosa

27 5.1,3.8,1.5,0.3,Iris-setosa

28 <null>,3.4,1.7,0.2,Iris-setosa

29 5.1,3.7,1.5,0.4,Iris-setosa

30 4.6,3.6,1.0,0.2,Iris-setosa

31 5.1,3.3,1.7,0.5,Iris-setosa

32 4.8,<null>,1.9,0.2,Iris-setosa

33 5.0,3.0,1.6,0.2,Iris-setosa

34 <null>,3.4,1.6,0.4,Iris-setosa

35 5.2,3.4,1.4,0.2,Iris-setosa

36 4.8,3.1,1.6,<null>,Iris-setosa

37 5.4,3.4,<null>,0.4,Iris-setosa

38 5.2,4.1,1.5,0.1,Iris-setosa

39 <null>,4.2,1.4,0.2,Iris-setosa

40 4.9,3.1,1.5,0.1,Iris-setosa

41 5.0,3.2,1.2,<null>,Iris-setosa

42 5.5,3.5,1.3,0.2,Iris-setosa

43 4.4,3.0,1.3,0.2,Iris-setosa

44 5.1,<null>,1.5,<null>,Iris-setosa

45 5.0,<null>,1.3,0.3,Iris-setosa

46 4.5,2.3,1.3,0.3,Iris-setosa

47 <null>,3.2,<null>,0.2,Iris-setosa

48 <null>,3.5,1.6,0.6,Iris-setosa

49 4.8,3.0,1.4,0.3,Iris-setosa

50 5.1,3.8,1.6,0.2,Iris-setosa

51 4.6,3.2,<null>,0.2,Iris-setosa

52 5.3,3.7,1.5,0.2,Iris-setosa

53 5.0,3.3,1.4,0.2,Iris-setosa

54 7.0,3.2,<null>,1.4,Iris-versicolor

55 6.9,3.1,<null>,1.5,Iris-versicolor

56 5.5,2.3,4.0,1.3,Iris-versicolor

57 6.5,2.8,4.6,1.5,Iris-versicolor

58 5.7,2.8,4.5,1.3,Iris-versicolor

59 6.3,3.3,4.7,1.6,Iris-versicolor

60 4.9,2.4,<null>,1.0,Iris-versicolor

61 6.6,2.9,4.6,1.3,Iris-versicolor

62 5.0,2.0,3.5,1.0,Iris-versicolor

63 <null>,3.0,4.2,1.5,Iris-versicolor

64 6.0,2.2,4.0,1.0,Iris-versicolor

65 6.1,2.9,4.7,1.4,Iris-versicolor

66 6.7,3.1,4.4,<null>,Iris-versicolor

67 5.6,3.0,4.5,1.5,Iris-versicolor

68 5.8,2.7,4.1,1.0,Iris-versicolor

69 6.2,2.2,4.5,1.5,Iris-versicolor

70 5.6,2.5,<null>,1.1,Iris-versicolor

71 5.9,3.2,<null>,1.8,Iris-versicolor

72 6.1,2.8,4.0,1.3,Iris-versicolor

73 6.3,2.5,4.9,1.5,Iris-versicolor

74 6.1,2.8,4.7,1.2,Iris-versicolor

75 6.4,2.9,4.3,1.3,Iris-versicolor

76 6.6,3.0,4.4,1.4,Iris-versicolor

77 6.8,2.8,4.8,1.4,Iris-versicolor

78 6.7,3.0,5.0,<null>,Iris-versicolor

79 6.0,2.9,4.5,1.5,Iris-versicolor

80 5.7,2.6,<null>,1.0,Iris-versicolor

81 <null>,2.4,3.8,1.1,Iris-versicolor

82 5.5,2.4,3.7,1.0,Iris-versicolor

83 5.8,<null>,3.9,1.2,Iris-versicolor

84 <null>,2.7,5.1,1.6,Iris-versicolor

85 5.4,3.0,4.5,1.5,Iris-versicolor

86 <null>,3.4,4.5,1.6,Iris-versicolor

87 6.7,3.1,4.7,1.5,Iris-versicolor

88 6.3,2.3,4.4,1.3,Iris-versicolor

89 5.6,3.0,4.1,1.3,Iris-versicolor

90 5.5,2.6,4.4,1.2,Iris-versicolor

91 6.1,3.0,4.6,1.4,Iris-versicolor

92 5.8,<null>,4.0,1.2,Iris-versicolor

93 5.0,2.3,3.3,1.0,Iris-versicolor

94 5.6,2.7,4.2,1.3,Iris-versicolor

95 5.7,2.9,4.2,1.3,Iris-versicolor

96 6.2,2.9,4.3,1.3,Iris-versicolor

97 5.1,2.5,3.0,1.1,Iris-versicolor

98 5.7,2.8,<null>,1.3,Iris-versicolor

99 6.3,3.3,6.0,2.5,Iris-virginica

100 5.8,<null>,5.1,1.9,Iris-virginica

101 7.1,<null>,5.9,2.1,Iris-virginica

102 6.3,2.9,5.6,1.8,Iris-virginica

103 6.5,3.0,5.8,2.2,Iris-virginica

104 <null>,3.0,6.6,2.1,Iris-virginica

105 4.9,2.5,4.5,1.7,Iris-virginica

106 7.3,2.9,6.3,1.8,Iris-virginica

107 6.7,2.5,5.8,1.8,Iris-virginica

108 7.2,3.6,6.1,<null>,Iris-virginica

109 6.5,3.2,<null>,2.0,Iris-virginica

110 6.4,2.7,<null>,1.9,Iris-virginica

111 <null>,3.0,5.5,<null>,Iris-virginica

112 5.8,2.8,5.1,2.4,Iris-virginica

113 6.4,3.2,5.3,2.3,Iris-virginica

114 6.5,3.0,5.5,1.8,Iris-virginica

115 7.7,3.8,6.7,2.2,Iris-virginica

116 7.7,2.6,<null>,2.3,Iris-virginica

117 6.0,2.2,5.0,1.5,Iris-virginica

118 6.9,<null>,<null>,2.3,Iris-virginica

119 5.6,2.8,4.9,2.0,Iris-virginica

120 7.7,2.8,6.7,2.0,Iris-virginica

121 6.3,2.7,4.9,1.8,Iris-virginica

122 7.2,3.2,6.0,1.8,Iris-virginica

123 6.2,2.8,4.8,1.8,Iris-virginica

124 6.1,3.0,4.9,1.8,Iris-virginica

125 <null>,2.8,5.6,2.1,Iris-virginica

126 7.2,3.0,<null>,1.6,Iris-virginica

127 <null>,2.8,6.1,<null>,Iris-virginica

128 7.9,3.8,6.4,2.0,Iris-virginica

129 6.4,2.8,5.6,2.2,Iris-virginica

130 6.3,2.8,5.1,1.5,Iris-virginica

131 6.1,<null>,5.6,1.4,Iris-virginica

132 7.7,3.0,6.1,2.3,Iris-virginica

133 6.3,3.4,5.6,<null>,Iris-virginica

134 6.4,3.1,5.5,1.8,Iris-virginica

135 6.9,3.1,<null>,2.1,Iris-virginica

136 6.7,3.1,<null>,2.4,Iris-virginica

137 6.9,3.1,5.1,2.3,Iris-virginica

138 6.8,3.2,5.9,2.3,Iris-virginica

139 6.7,3.0,5.2,2.3,Iris-virginica

140 6.3,2.5,5.0,1.9,Iris-virginica

141 6.5,3.0,5.2,2.0,Iris-virginica

142 6.2,3.4,5.4,2.3,Iris-virginica

143 5.9,3.0,5.1,1.8,Iris-virginica

[[16]]

X.relation.iris.MV

1 @attribute SepalLength real [4.3, 7.9]

2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

9 5.4,3.9,1.3,0.4,Iris-setosa

10 5.2,3.5,1.5,0.2,Iris-setosa

11 4.7,3.2,1.6,0.2,Iris-setosa

12 4.9,3.1,1.5,0.1,Iris-setosa

13 5.1,3.8,1.9,0.4,Iris-setosa

14 6.4,3.2,4.5,1.5,Iris-versicolor

15 5.2,2.7,3.9,1.4,Iris-versicolor

16 5.6,2.9,3.6,1.3,Iris-versicolor

17 5.5,2.5,4.0,1.3,Iris-versicolor

18 5.7,3.0,4.2,1.2,Iris-versicolor

19 5.7,2.5,5.0,2.0,Iris-virginica

20 6.7,3.3,5.7,2.1,Iris-virginica

21 6.0,3.0,4.8,1.8,Iris-virginica

22 5.8,2.7,5.1,1.9,Iris-virginica

23 6.7,3.3,5.7,2.5,Iris-virginica

[[17]]

X.relation.iris.MV

1 @attribute SepalLength real [4.3, 7.9]

2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

9 5.1,3.5,1.4,0.2,Iris-setosa

10 4.9,3.0,1.4,0.2,Iris-setosa

11 4.7,<null>,1.3,0.2,Iris-setosa

12 4.6,3.1,1.5,0.2,Iris-setosa

13 5.0,3.6,1.4,0.2,Iris-setosa

14 5.4,3.9,1.7,0.4,Iris-setosa

15 4.6,3.4,1.4,0.3,Iris-setosa

16 5.0,3.4,1.5,0.2,Iris-setosa

17 4.4,2.9,<null>,0.2,Iris-setosa

18 4.9,<null>,1.5,0.1,Iris-setosa

19 <null>,3.7,1.5,0.2,Iris-setosa

20 4.8,3.4,1.6,0.2,Iris-setosa

21 4.8,3.0,1.4,0.1,Iris-setosa

22 4.3,3.0,1.1,<null>,Iris-setosa

23 5.8,4.0,1.2,0.2,Iris-setosa

24 5.7,4.4,1.5,0.4,Iris-setosa

25 5.4,3.9,1.3,0.4,Iris-setosa

26 5.1,3.5,<null>,0.3,Iris-setosa

27 5.7,3.8,1.7,0.3,Iris-setosa

28 <null>,3.8,1.5,0.3,Iris-setosa

29 5.4,3.4,1.7,0.2,Iris-setosa

30 5.1,3.7,1.5,0.4,Iris-setosa

31 5.1,3.3,1.7,0.5,Iris-setosa

32 4.8,<null>,1.9,0.2,Iris-setosa

33 5.0,3.0,1.6,0.2,Iris-setosa

34 <null>,3.4,1.6,0.4,Iris-setosa

35 5.2,3.5,1.5,0.2,Iris-setosa

36 5.2,3.4,1.4,<null>,Iris-setosa

37 4.7,3.2,<null>,0.2,Iris-setosa

38 4.8,3.1,1.6,0.2,Iris-setosa

39 <null>,3.4,1.5,0.4,Iris-setosa

40 5.2,4.1,1.5,0.1,Iris-setosa

41 5.5,4.2,1.4,<null>,Iris-setosa

42 4.9,3.1,1.5,0.1,Iris-setosa

43 5.5,3.5,1.3,0.2,Iris-setosa

44 4.9,<null>,1.5,<null>,Iris-setosa

45 4.4,<null>,1.3,0.2,Iris-setosa

46 5.1,3.4,1.5,0.2,Iris-setosa

47 <null>,3.5,<null>,0.3,Iris-setosa

48 <null>,2.3,1.3,0.3,Iris-setosa

49 4.4,3.2,1.3,0.2,Iris-setosa

50 5.0,3.5,1.6,0.6,Iris-setosa

51 5.1,3.8,<null>,0.4,Iris-setosa

52 5.1,3.8,1.6,0.2,Iris-setosa

53 5.3,3.7,1.5,0.2,Iris-setosa

54 7.0,3.2,<null>,1.4,Iris-versicolor

55 6.4,3.2,<null>,1.5,Iris-versicolor

56 6.9,3.1,4.9,1.5,Iris-versicolor

57 6.5,2.8,4.6,1.5,Iris-versicolor

58 5.7,2.8,4.5,1.3,Iris-versicolor

59 6.3,3.3,4.7,1.6,Iris-versicolor

60 6.6,2.9,<null>,1.3,Iris-versicolor

61 5.2,2.7,3.9,1.4,Iris-versicolor

62 5.0,2.0,3.5,1.0,Iris-versicolor

63 <null>,2.2,4.0,1.0,Iris-versicolor

64 6.1,2.9,4.7,1.4,Iris-versicolor

65 5.6,2.9,3.6,1.3,Iris-versicolor

66 6.7,3.1,4.4,<null>,Iris-versicolor

67 5.6,3.0,4.5,1.5,Iris-versicolor

68 5.8,2.7,4.1,1.0,Iris-versicolor

69 6.2,2.2,4.5,1.5,Iris-versicolor

70 5.9,3.2,<null>,1.8,Iris-versicolor

71 6.1,2.8,<null>,1.3,Iris-versicolor

72 6.1,2.8,4.7,1.2,Iris-versicolor

73 6.4,2.9,4.3,1.3,Iris-versicolor

74 6.6,3.0,4.4,1.4,Iris-versicolor

75 6.8,2.8,4.8,1.4,Iris-versicolor

76 6.7,3.0,5.0,1.7,Iris-versicolor

77 6.0,2.9,4.5,1.5,Iris-versicolor

78 5.7,2.6,3.5,<null>,Iris-versicolor

79 5.5,2.4,3.8,1.1,Iris-versicolor

80 5.5,2.4,<null>,1.0,Iris-versicolor

81 <null>,2.7,3.9,1.2,Iris-versicolor

82 6.0,2.7,5.1,1.6,Iris-versicolor

83 5.4,<null>,4.5,1.5,Iris-versicolor

84 <null>,3.4,4.5,1.6,Iris-versicolor

85 6.7,3.1,4.7,1.5,Iris-versicolor

86 <null>,2.3,4.4,1.3,Iris-versicolor

87 5.6,3.0,4.1,1.3,Iris-versicolor

88 5.5,2.5,4.0,1.3,Iris-versicolor

89 5.5,2.6,4.4,1.2,Iris-versicolor

90 6.1,3.0,4.6,1.4,Iris-versicolor

91 5.8,2.6,4.0,1.2,Iris-versicolor

92 5.0,<null>,3.3,1.0,Iris-versicolor

93 5.6,2.7,4.2,1.3,Iris-versicolor

94 5.7,3.0,4.2,1.2,Iris-versicolor

95 5.7,2.9,4.2,1.3,Iris-versicolor

96 6.2,2.9,4.3,1.3,Iris-versicolor

97 5.1,2.5,3.0,1.1,Iris-versicolor

98 5.7,2.8,<null>,1.3,Iris-versicolor

99 6.3,3.3,6.0,2.5,Iris-virginica

100 5.8,<null>,5.1,1.9,Iris-virginica

101 7.1,<null>,5.9,2.1,Iris-virginica

102 6.3,2.9,5.6,1.8,Iris-virginica

103 6.5,3.0,5.8,2.2,Iris-virginica

104 <null>,3.0,6.6,2.1,Iris-virginica

105 4.9,2.5,4.5,1.7,Iris-virginica

106 7.3,2.9,6.3,1.8,Iris-virginica

107 6.7,2.5,5.8,1.8,Iris-virginica

108 7.2,3.6,6.1,<null>,Iris-virginica

109 6.5,3.2,<null>,2.0,Iris-virginica

110 6.8,3.0,<null>,2.1,Iris-virginica

111 <null>,2.5,5.0,<null>,Iris-virginica

112 5.8,2.8,5.1,2.4,Iris-virginica

113 6.4,3.2,5.3,2.3,Iris-virginica

114 6.5,3.0,5.5,1.8,Iris-virginica

115 7.7,2.6,6.9,2.3,Iris-virginica

116 6.0,2.2,<null>,1.5,Iris-virginica

117 6.9,3.2,5.7,2.3,Iris-virginica

118 5.6,<null>,<null>,2.0,Iris-virginica

119 7.7,2.8,6.7,2.0,Iris-virginica

120 6.3,2.7,4.9,1.8,Iris-virginica

121 6.7,3.3,5.7,2.1,Iris-virginica

122 7.2,3.2,6.0,1.8,Iris-virginica

123 6.2,2.8,4.8,1.8,Iris-virginica

124 6.1,3.0,4.9,1.8,Iris-virginica

125 <null>,2.8,5.6,2.1,Iris-virginica

126 7.2,3.0,<null>,1.6,Iris-virginica

127 <null>,2.8,6.1,<null>,Iris-virginica

128 7.9,3.8,6.4,2.0,Iris-virginica

129 6.4,2.8,5.6,2.2,Iris-virginica

130 6.3,2.8,5.1,1.5,Iris-virginica

131 6.1,<null>,5.6,1.4,Iris-virginica

132 6.3,3.4,5.6,2.4,Iris-virginica

133 6.4,3.1,5.5,<null>,Iris-virginica

134 6.0,3.0,4.8,1.8,Iris-virginica

135 6.9,3.1,<null>,2.1,Iris-virginica

136 5.8,2.7,<null>,1.9,Iris-virginica

137 6.8,3.2,5.9,2.3,Iris-virginica

138 6.7,3.3,5.7,2.5,Iris-virginica

139 6.7,3.0,5.2,2.3,Iris-virginica

140 6.3,2.5,5.0,1.9,Iris-virginica

141 6.5,3.0,5.2,2.0,Iris-virginica

142 6.2,3.4,5.4,2.3,Iris-virginica

143 5.9,3.0,5.1,1.8,Iris-virginica

[[18]]

X.relation.iris.MV

1 @attribute SepalLength real [4.3, 7.9]

2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

9 4.6,3.6,1.0,0.2,Iris-setosa

10 5.0,3.2,1.2,0.2,Iris-setosa

11 4.8,3.0,1.4,0.3,Iris-setosa

12 4.6,3.2,1.4,0.2,Iris-setosa

13 5.0,3.3,1.4,0.2,Iris-setosa

14 5.5,2.3,4.0,1.3,Iris-versicolor

15 4.9,2.4,3.3,1.0,Iris-versicolor

16 5.9,3.0,4.2,1.5,Iris-versicolor

17 5.6,2.5,3.9,1.1,Iris-versicolor

18 6.3,2.5,4.9,1.5,Iris-versicolor

19 6.4,2.7,5.3,1.9,Iris-virginica

20 7.7,3.8,6.7,2.2,Iris-virginica

21 7.7,3.0,6.1,2.3,Iris-virginica

22 6.7,3.1,5.6,2.4,Iris-virginica

23 6.9,3.1,5.1,2.3,Iris-virginica

[[19]]

X.relation.iris.MV

1 @attribute SepalLength real [4.3, 7.9]

2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

9 5.1,3.5,1.4,0.2,Iris-setosa

10 4.9,3.0,1.4,0.2,Iris-setosa

11 4.6,<null>,1.5,0.2,Iris-setosa

12 5.0,3.6,1.4,0.2,Iris-setosa

13 5.4,3.9,1.7,0.4,Iris-setosa

14 4.6,3.4,1.4,0.3,Iris-setosa

15 5.0,3.4,1.5,0.2,Iris-setosa

16 4.4,2.9,1.4,0.2,Iris-setosa

17 5.4,3.7,<null>,0.2,Iris-setosa

18 4.8,<null>,1.6,0.2,Iris-setosa

19 <null>,3.0,1.4,0.1,Iris-setosa

20 4.3,3.0,1.1,0.1,Iris-setosa

21 5.7,4.4,1.5,0.4,Iris-setosa

22 5.4,3.9,1.3,<null>,Iris-setosa

23 5.1,3.5,1.4,0.3,Iris-setosa

24 5.7,3.8,1.7,0.3,Iris-setosa

25 5.1,3.8,1.5,0.3,Iris-setosa

26 5.4,3.4,<null>,0.2,Iris-setosa

27 5.1,3.7,1.5,0.4,Iris-setosa

28 <null>,3.6,1.0,0.2,Iris-setosa

29 5.1,3.3,1.7,0.5,Iris-setosa

30 4.8,3.4,1.9,0.2,Iris-setosa

31 5.0,3.0,1.6,0.2,Iris-setosa

32 5.0,<null>,1.6,0.4,Iris-setosa

33 5.2,3.5,1.5,0.2,Iris-setosa

34 <null>,3.4,1.4,0.2,Iris-setosa

35 4.7,3.2,1.6,0.2,Iris-setosa

36 4.8,3.1,1.6,<null>,Iris-setosa

37 5.4,3.4,<null>,0.4,Iris-setosa

38 5.2,4.1,1.5,0.1,Iris-setosa

39 <null>,4.2,1.4,0.2,Iris-setosa

40 4.9,3.1,1.5,0.1,Iris-setosa

41 5.0,3.2,1.2,<null>,Iris-setosa

42 5.5,3.5,1.3,0.2,Iris-setosa

43 4.9,3.1,1.5,0.1,Iris-setosa

44 4.4,<null>,1.3,<null>,Iris-setosa

45 5.1,<null>,1.5,0.2,Iris-setosa

46 5.0,3.5,1.3,0.3,Iris-setosa

47 <null>,2.3,<null>,0.3,Iris-setosa

48 <null>,3.8,1.9,0.4,Iris-setosa

49 4.8,3.0,1.4,0.3,Iris-setosa

50 5.1,3.8,1.6,0.2,Iris-setosa

51 4.6,3.2,<null>,0.2,Iris-setosa

52 5.3,3.7,1.5,0.2,Iris-setosa

53 5.0,3.3,1.4,0.2,Iris-setosa

54 7.0,3.2,<null>,1.4,Iris-versicolor

55 6.4,3.2,<null>,1.5,Iris-versicolor

56 6.9,3.1,4.9,1.5,Iris-versicolor

57 5.5,2.3,4.0,1.3,Iris-versicolor

58 5.7,2.8,4.5,1.3,Iris-versicolor

59 6.3,3.3,4.7,1.6,Iris-versicolor

60 4.9,2.4,<null>,1.0,Iris-versicolor

61 5.2,2.7,3.9,1.4,Iris-versicolor

62 5.0,2.0,3.5,1.0,Iris-versicolor

63 <null>,3.0,4.2,1.5,Iris-versicolor

64 6.0,2.2,4.0,1.0,Iris-versicolor

65 6.1,2.9,4.7,1.4,Iris-versicolor

66 5.6,2.9,3.6,<null>,Iris-versicolor

67 6.7,3.1,4.4,1.4,Iris-versicolor

68 5.6,3.0,4.5,1.5,Iris-versicolor

69 5.8,2.7,4.1,1.0,Iris-versicolor

70 6.2,2.2,<null>,1.5,Iris-versicolor

71 5.6,2.5,<null>,1.1,Iris-versicolor

72 5.9,3.2,4.8,1.8,Iris-versicolor

73 6.1,2.8,4.0,1.3,Iris-versicolor

74 6.3,2.5,4.9,1.5,Iris-versicolor

75 6.1,2.8,4.7,1.2,Iris-versicolor

76 6.4,2.9,4.3,1.3,Iris-versicolor

77 6.6,3.0,4.4,1.4,Iris-versicolor

78 6.7,3.0,5.0,<null>,Iris-versicolor

79 5.7,2.6,3.5,1.0,Iris-versicolor

80 5.5,2.4,<null>,1.1,Iris-versicolor

81 <null>,2.4,3.7,1.0,Iris-versicolor

82 5.8,2.7,3.9,1.2,Iris-versicolor

83 6.0,<null>,5.1,1.6,Iris-versicolor

84 <null>,3.0,4.5,1.5,Iris-versicolor

85 6.7,3.1,4.7,1.5,Iris-versicolor

86 <null>,2.3,4.4,1.3,Iris-versicolor

87 5.6,3.0,4.1,1.3,Iris-versicolor

88 5.5,2.5,4.0,1.3,Iris-versicolor

89 5.5,2.6,4.4,1.2,Iris-versicolor

90 6.1,3.0,4.6,1.4,Iris-versicolor

91 5.8,2.6,4.0,1.2,Iris-versicolor

92 5.0,<null>,3.3,1.0,Iris-versicolor

93 5.6,2.7,4.2,1.3,Iris-versicolor

94 5.7,3.0,4.2,1.2,Iris-versicolor

95 5.7,2.9,4.2,1.3,Iris-versicolor

96 6.2,2.9,4.3,1.3,Iris-versicolor

97 5.1,2.5,3.0,1.1,Iris-versicolor

98 5.7,2.8,<null>,1.3,Iris-versicolor

99 6.3,3.3,6.0,2.5,Iris-virginica

100 5.8,<null>,5.1,1.9,Iris-virginica

101 7.1,<null>,5.9,2.1,Iris-virginica

102 6.3,2.9,5.6,1.8,Iris-virginica

103 6.5,3.0,5.8,2.2,Iris-virginica

104 <null>,3.0,6.6,2.1,Iris-virginica

105 4.9,2.5,4.5,1.7,Iris-virginica

106 7.3,2.9,6.3,1.8,Iris-virginica

107 6.7,2.5,5.8,1.8,Iris-virginica

108 7.2,3.6,6.1,<null>,Iris-virginica

109 6.5,3.2,<null>,2.0,Iris-virginica

110 6.4,2.7,<null>,1.9,Iris-virginica

111 <null>,3.0,5.5,<null>,Iris-virginica

112 5.7,2.5,5.0,2.0,Iris-virginica

113 5.8,2.8,5.1,2.4,Iris-virginica

114 6.4,3.2,5.3,2.3,Iris-virginica

115 7.7,3.8,6.7,2.2,Iris-virginica

116 5.6,2.8,<null>,2.0,Iris-virginica

117 7.7,2.8,6.7,2.0,Iris-virginica

118 6.3,<null>,<null>,1.8,Iris-virginica

119 6.7,3.3,5.7,2.1,Iris-virginica

120 7.2,3.2,6.0,1.8,Iris-virginica

121 6.1,3.0,4.9,1.8,Iris-virginica

122 6.4,2.8,5.6,2.1,Iris-virginica

123 7.2,3.0,5.8,1.6,Iris-virginica

124 7.4,2.8,6.1,1.9,Iris-virginica

125 <null>,3.8,6.4,2.0,Iris-virginica

126 6.4,2.8,<null>,2.2,Iris-virginica

127 <null>,2.8,5.1,<null>,Iris-virginica

128 6.1,2.6,5.6,1.4,Iris-virginica

129 7.7,3.0,6.1,2.3,Iris-virginica

130 6.3,3.4,5.6,2.4,Iris-virginica

131 6.4,<null>,5.5,1.8,Iris-virginica

132 6.0,3.0,4.8,1.8,Iris-virginica

133 6.9,3.1,5.4,<null>,Iris-virginica

134 6.7,3.1,5.6,2.4,Iris-virginica

135 6.9,3.1,<null>,2.3,Iris-virginica

136 5.8,2.7,<null>,1.9,Iris-virginica

137 6.8,3.2,5.9,2.3,Iris-virginica

138 6.7,3.3,5.7,2.5,Iris-virginica

139 6.7,3.0,5.2,2.3,Iris-virginica

140 6.3,2.5,5.0,1.9,Iris-virginica

141 6.5,3.0,5.2,2.0,Iris-virginica

142 6.2,3.4,5.4,2.3,Iris-virginica

143 5.9,3.0,5.1,1.8,Iris-virginica

[[20]]

X.relation.iris.MV

1 @attribute SepalLength real [4.3, 7.9]

2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

9 4.7,3.2,1.3,0.2,Iris-setosa

10 4.9,3.1,1.5,0.1,Iris-setosa

11 5.8,4.0,1.2,0.2,Iris-setosa

12 4.4,3.2,1.3,0.2,Iris-setosa

13 5.0,3.5,1.6,0.6,Iris-setosa

14 6.5,2.8,4.6,1.5,Iris-versicolor

15 6.6,2.9,4.6,1.3,Iris-versicolor

16 6.8,2.8,4.8,1.4,Iris-versicolor

17 6.0,2.9,4.5,1.5,Iris-versicolor

18 6.0,3.4,4.5,1.6,Iris-versicolor

19 6.5,3.0,5.5,1.8,Iris-virginica

20 7.7,2.6,6.9,2.3,Iris-virginica

21 6.0,2.2,5.0,1.5,Iris-virginica

22 6.9,3.2,5.7,2.3,Iris-virginica

23 6.2,2.8,4.8,1.8,Iris-virginica

**# Part II**

# The data is present in xml format, with file name, iris.xml. Your task is to read the XML data and store it

# in the data frame df.

setwd("C:/Users/admin/Documents/GitHub/")

> library(XML)

> df <- xmlToDataFrame("iris.xml", collectNames = TRUE, homogeneous = TRUE)

> df

Sepal.Length Sepal.Width Petal.Length Petal.Width Species

1 4.4 3.5 1.5 0.6 setosa

2 5.0 3.2 1.7 0.3 versicolor

3 4.8 3.0 1.1 0.4 virginica

> is.data.frame(df)

[1] TRUE

>

**# Part III**

# Convert the iris data into the JSON format and read the data in JSON format and convert it into

# dataframe “iris\_data”

library(jsonlite)

setwd("C:/Users/admin/Documents/GitHub/iris\_dat")

light <- list.files(getwd(), ".dat")

Light

out <- lapply(light, read.delim)

Out

31 5.0,3.0,1.6,0.2,Iris-setosa

32 5.0,<null>,1.6,0.4,Iris-setosa

33 5.2,3.5,1.5,0.2,Iris-setosa

34 <null>,3.4,1.4,0.2,Iris-setosa

35 4.7,3.2,1.6,0.2,Iris-setosa

36 4.8,3.1,1.6,<null>,Iris-setosa

37 5.4,3.4,<null>,0.4,Iris-setosa

38 5.2,4.1,1.5,0.1,Iris-setosa

39 <null>,3.1,1.5,0.1,Iris-setosa

40 5.0,3.2,1.2,0.2,Iris-setosa

41 5.5,3.5,1.3,<null>,Iris-setosa

42 4.9,3.1,1.5,0.1,Iris-setosa

43 4.4,3.0,1.3,0.2,Iris-setosa

44 5.1,<null>,1.5,<null>,Iris-setosa

45 5.0,<null>,1.3,0.3,Iris-setosa

46 4.5,2.3,1.3,0.3,Iris-setosa

47 <null>,3.2,<null>,0.2,Iris-setosa

48 <null>,3.5,1.6,0.6,Iris-setosa

49 5.1,3.8,1.9,0.4,Iris-setosa

50 4.8,3.0,1.4,0.3,Iris-setosa

51 5.1,3.8,<null>,0.2,Iris-setosa

52 4.6,3.2,1.4,0.2,Iris-setosa

53 5.0,3.3,1.4,0.2,Iris-setosa

54 7.0,3.2,<null>,1.4,Iris-versicolor

55 6.4,3.2,<null>,1.5,Iris-versicolor

56 6.9,3.1,4.9,1.5,Iris-versicolor

57 5.5,2.3,4.0,1.3,Iris-versicolor

58 6.5,2.8,4.6,1.5,Iris-versicolor

59 5.7,2.8,4.5,1.3,Iris-versicolor

60 6.3,3.3,<null>,1.6,Iris-versicolor

61 4.9,2.4,3.3,1.0,Iris-versicolor

62 6.6,2.9,4.6,1.3,Iris-versicolor

63 <null>,2.7,3.9,1.4,Iris-versicolor

64 5.0,2.0,3.5,1.0,Iris-versicolor

65 5.9,3.0,4.2,1.5,Iris-versicolor

66 5.6,2.9,3.6,<null>,Iris-versicolor

67 6.7,3.1,4.4,1.4,Iris-versicolor

68 5.6,3.0,4.5,1.5,Iris-versicolor

69 5.8,2.7,4.1,1.0,Iris-versicolor

70 6.2,2.2,<null>,1.5,Iris-versicolor

71 5.6,2.5,<null>,1.1,Iris-versicolor

72 5.9,3.2,4.8,1.8,Iris-versicolor

73 6.1,2.8,4.0,1.3,Iris-versicolor

74 6.3,2.5,4.9,1.5,Iris-versicolor

75 6.1,2.8,4.7,1.2,Iris-versicolor

76 6.4,2.9,4.3,1.3,Iris-versicolor

77 6.6,3.0,4.4,1.4,Iris-versicolor

78 6.8,2.8,4.8,<null>,Iris-versicolor

79 6.7,3.0,5.0,1.7,Iris-versicolor

80 6.0,2.9,<null>,1.5,Iris-versicolor

81 <null>,2.6,3.5,1.0,Iris-versicolor

82 5.5,2.4,3.8,1.1,Iris-versicolor

83 5.5,<null>,3.7,1.0,Iris-versicolor

84 <null>,2.7,3.9,1.2,Iris-versicolor

85 5.4,3.0,4.5,1.5,Iris-versicolor

86 <null>,3.4,4.5,1.6,Iris-versicolor

87 6.7,3.1,4.7,1.5,Iris-versicolor

88 6.3,2.3,4.4,1.3,Iris-versicolor

89 5.6,3.0,4.1,1.3,Iris-versicolor

90 5.5,2.5,4.0,1.3,Iris-versicolor

91 5.5,2.6,4.4,1.2,Iris-versicolor

92 5.8,<null>,4.0,1.2,Iris-versicolor

93 5.0,2.3,3.3,1.0,Iris-versicolor

94 5.6,2.7,4.2,1.3,Iris-versicolor

95 5.7,3.0,4.2,1.2,Iris-versicolor

96 6.2,2.9,4.3,1.3,Iris-versicolor

97 5.1,2.5,3.0,1.1,Iris-versicolor

98 5.7,2.8,<null>,1.3,Iris-versicolor

99 6.3,3.3,6.0,2.5,Iris-virginica

100 5.8,<null>,5.1,1.9,Iris-virginica

101 7.1,<null>,5.9,2.1,Iris-virginica

102 6.3,2.9,5.6,1.8,Iris-virginica

103 6.5,3.0,5.8,2.2,Iris-virginica

104 <null>,3.0,6.6,2.1,Iris-virginica

105 4.9,2.5,4.5,1.7,Iris-virginica

106 6.7,2.5,5.8,1.8,Iris-virginica

107 7.2,3.6,6.1,2.5,Iris-virginica

108 6.4,2.7,5.3,<null>,Iris-virginica

109 6.8,3.0,<null>,2.1,Iris-virginica

110 5.7,2.5,<null>,2.0,Iris-virginica

111 <null>,2.8,5.1,<null>,Iris-virginica

112 6.5,3.0,5.5,1.8,Iris-virginica

113 7.7,3.8,6.7,2.2,Iris-virginica

114 7.7,2.6,6.9,2.3,Iris-virginica

115 6.0,2.2,5.0,1.5,Iris-virginica

116 6.9,3.2,<null>,2.3,Iris-virginica

117 5.6,2.8,4.9,2.0,Iris-virginica

118 7.7,<null>,<null>,2.0,Iris-virginica

119 6.3,2.7,4.9,1.8,Iris-virginica

120 6.7,3.3,5.7,2.1,Iris-virginica

121 6.2,2.8,4.8,1.8,Iris-virginica

122 6.1,3.0,4.9,1.8,Iris-virginica

123 6.4,2.8,5.6,2.1,Iris-virginica

124 7.2,3.0,5.8,1.6,Iris-virginica

125 <null>,2.8,6.1,1.9,Iris-virginica

126 7.9,3.8,<null>,2.0,Iris-virginica

127 <null>,2.8,5.6,<null>,Iris-virginica

128 6.3,2.8,5.1,1.5,Iris-virginica

129 6.1,2.6,5.6,1.4,Iris-virginica

130 7.7,3.0,6.1,2.3,Iris-virginica

131 6.3,<null>,5.6,2.4,Iris-virginica

132 6.4,3.1,5.5,1.8,Iris-virginica

133 6.0,3.0,4.8,<null>,Iris-virginica

134 6.9,3.1,5.4,2.1,Iris-virginica

135 6.7,3.1,<null>,2.4,Iris-virginica

136 6.9,3.1,<null>,2.3,Iris-virginica

137 5.8,2.7,5.1,1.9,Iris-virginica

138 6.8,3.2,5.9,2.3,Iris-virginica

139 6.7,3.3,5.7,2.5,Iris-virginica

140 6.7,3.0,5.2,2.3,Iris-virginica

141 6.3,2.5,5.0,1.9,Iris-virginica

142 6.5,3.0,5.2,2.0,Iris-virginica

143 6.2,3.4,5.4,2.3,Iris-virginica

[[10]]

X.relation.iris.MV

1 @attribute SepalLength real [4.3, 7.9]

2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

9 5.4,3.9,1.7,0.4,Iris-setosa

10 5.7,3.8,1.7,0.3,Iris-setosa

11 4.8,3.4,1.9,0.2,Iris-setosa

12 5.5,4.2,1.4,0.2,Iris-setosa

13 5.3,3.7,1.5,0.2,Iris-setosa

14 6.0,2.2,4.0,1.0,Iris-versicolor

15 6.1,2.9,4.7,1.4,Iris-versicolor

16 6.0,2.7,5.1,1.6,Iris-versicolor

17 6.1,3.0,4.6,1.4,Iris-versicolor

18 5.7,2.9,4.2,1.3,Iris-versicolor

19 7.3,2.9,6.3,1.8,Iris-virginica

20 6.5,3.2,5.1,2.0,Iris-virginica

21 6.4,3.2,5.3,2.3,Iris-virginica

22 7.2,3.2,6.0,1.8,Iris-virginica

23 5.9,3.0,5.1,1.8,Iris-virginica

[[11]]

X.relation.iris.MV

1 @attribute SepalLength real [4.3, 7.9]

2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

9 5.1,3.5,1.4,0.2,Iris-setosa

10 4.9,3.0,1.4,0.2,Iris-setosa

11 4.7,<null>,1.3,0.2,Iris-setosa

12 4.6,3.1,1.5,0.2,Iris-setosa

13 5.0,3.6,1.4,0.2,Iris-setosa

14 5.4,3.9,1.7,0.4,Iris-setosa

15 4.6,3.4,1.4,0.3,Iris-setosa

16 4.4,2.9,1.4,0.2,Iris-setosa

17 4.9,3.1,<null>,0.1,Iris-setosa

18 5.4,<null>,1.5,0.2,Iris-setosa

19 <null>,3.4,1.6,0.2,Iris-setosa

20 4.8,3.0,1.4,0.1,Iris-setosa

21 5.8,4.0,1.2,0.2,Iris-setosa

22 5.7,4.4,1.5,<null>,Iris-setosa

23 5.4,3.9,1.3,0.4,Iris-setosa

24 5.1,3.5,1.4,0.3,Iris-setosa

25 5.7,3.8,1.7,0.3,Iris-setosa

26 5.1,3.8,<null>,0.3,Iris-setosa

27 5.4,3.4,1.7,0.2,Iris-setosa

28 <null>,3.7,1.5,0.4,Iris-setosa

29 4.6,3.6,1.0,0.2,Iris-setosa

30 5.1,3.3,1.7,0.5,Iris-setosa

31 4.8,3.4,1.9,0.2,Iris-setosa

32 5.0,<null>,1.6,0.2,Iris-setosa

33 5.0,3.4,1.6,0.4,Iris-setosa

34 <null>,3.5,1.5,0.2,Iris-setosa

35 5.2,3.4,1.4,0.2,Iris-setosa

36 4.7,3.2,1.6,<null>,Iris-setosa

37 5.4,3.4,<null>,0.4,Iris-setosa

38 5.2,4.1,1.5,0.1,Iris-setosa

39 <null>,4.2,1.4,0.2,Iris-setosa

40 5.0,3.2,1.2,0.2,Iris-setosa

41 5.5,3.5,1.3,<null>,Iris-setosa

42 4.9,3.1,1.5,0.1,Iris-setosa

43 4.4,3.0,1.3,0.2,Iris-setosa

44 5.0,<null>,1.3,<null>,Iris-setosa

45 4.5,<null>,1.3,0.3,Iris-setosa

46 4.4,3.2,1.3,0.2,Iris-setosa

47 <null>,3.5,<null>,0.6,Iris-setosa

48 <null>,3.8,1.9,0.4,Iris-setosa

49 4.8,3.0,1.4,0.3,Iris-setosa

50 5.1,3.8,1.6,0.2,Iris-setosa

51 4.6,3.2,<null>,0.2,Iris-setosa

52 5.3,3.7,1.5,0.2,Iris-setosa

53 5.0,3.3,1.4,0.2,Iris-setosa

54 7.0,3.2,<null>,1.4,Iris-versicolor

55 6.4,3.2,<null>,1.5,Iris-versicolor

56 6.9,3.1,4.9,1.5,Iris-versicolor

57 5.5,2.3,4.0,1.3,Iris-versicolor

58 6.5,2.8,4.6,1.5,Iris-versicolor

59 5.7,2.8,4.5,1.3,Iris-versicolor

60 6.3,3.3,<null>,1.6,Iris-versicolor

61 4.9,2.4,3.3,1.0,Iris-versicolor

62 6.6,2.9,4.6,1.3,Iris-versicolor

63 <null>,2.7,3.9,1.4,Iris-versicolor

64 5.0,2.0,3.5,1.0,Iris-versicolor

65 5.9,3.0,4.2,1.5,Iris-versicolor

66 6.0,2.2,4.0,<null>,Iris-versicolor

67 6.1,2.9,4.7,1.4,Iris-versicolor

68 5.6,2.9,3.6,1.3,Iris-versicolor

69 6.7,3.1,4.4,1.4,Iris-versicolor

70 5.6,3.0,<null>,1.5,Iris-versicolor

71 6.2,2.2,<null>,1.5,Iris-versicolor

72 5.6,2.5,3.9,1.1,Iris-versicolor

73 6.1,2.8,4.0,1.3,Iris-versicolor

74 6.3,2.5,4.9,1.5,Iris-versicolor

75 6.1,2.8,4.7,1.2,Iris-versicolor

76 6.6,3.0,4.4,1.4,Iris-versicolor

77 6.8,2.8,4.8,1.4,Iris-versicolor

78 6.7,3.0,5.0,<null>,Iris-versicolor

79 6.0,2.9,4.5,1.5,Iris-versicolor

80 5.7,2.6,<null>,1.0,Iris-versicolor

81 <null>,2.4,3.7,1.0,Iris-versicolor

82 6.0,2.7,5.1,1.6,Iris-versicolor

83 5.4,<null>,4.5,1.5,Iris-versicolor

84 <null>,3.4,4.5,1.6,Iris-versicolor

85 6.7,3.1,4.7,1.5,Iris-versicolor

86 <null>,2.3,4.4,1.3,Iris-versicolor

87 5.6,3.0,4.1,1.3,Iris-versicolor

88 5.5,2.5,4.0,1.3,Iris-versicolor

89 5.5,2.6,4.4,1.2,Iris-versicolor

90 6.1,3.0,4.6,1.4,Iris-versicolor

91 5.8,2.6,4.0,1.2,Iris-versicolor

92 5.0,<null>,3.3,1.0,Iris-versicolor

93 5.6,2.7,4.2,1.3,Iris-versicolor

94 5.7,3.0,4.2,1.2,Iris-versicolor

95 5.7,2.9,4.2,1.3,Iris-versicolor

96 6.2,2.9,4.3,1.3,Iris-versicolor

97 5.1,2.5,3.0,1.1,Iris-versicolor

98 5.7,2.8,<null>,1.3,Iris-versicolor

99 6.3,3.3,6.0,2.5,Iris-virginica

100 5.8,<null>,5.1,1.9,Iris-virginica

101 7.1,<null>,5.9,2.1,Iris-virginica

102 6.5,3.0,5.8,2.2,Iris-virginica

103 7.6,3.0,6.6,2.1,Iris-virginica

104 <null>,2.5,4.5,1.7,Iris-virginica

105 7.3,2.9,6.3,1.8,Iris-virginica

106 6.7,2.5,5.8,1.8,Iris-virginica

107 7.2,3.6,6.1,2.5,Iris-virginica

108 6.5,3.2,5.1,<null>,Iris-virginica

109 6.4,2.7,<null>,1.9,Iris-virginica

110 6.8,3.0,<null>,2.1,Iris-virginica

111 <null>,2.5,5.0,<null>,Iris-virginica

112 5.8,2.8,5.1,2.4,Iris-virginica

113 6.4,3.2,5.3,2.3,Iris-virginica

114 6.5,3.0,5.5,1.8,Iris-virginica

115 7.7,3.8,6.7,2.2,Iris-virginica

116 7.7,2.6,<null>,2.3,Iris-virginica

117 6.0,2.2,5.0,1.5,Iris-virginica

118 6.9,<null>,<null>,2.3,Iris-virginica

119 5.6,2.8,4.9,2.0,Iris-virginica

120 7.7,2.8,6.7,2.0,Iris-virginica

121 6.3,2.7,4.9,1.8,Iris-virginica

122 6.7,3.3,5.7,2.1,Iris-virginica

123 7.2,3.2,6.0,1.8,Iris-virginica

124 6.2,2.8,4.8,1.8,Iris-virginica

125 <null>,3.0,4.9,1.8,Iris-virginica

126 6.4,2.8,<null>,2.1,Iris-virginica

127 <null>,3.0,5.8,<null>,Iris-virginica

128 7.4,2.8,6.1,1.9,Iris-virginica

129 6.3,2.8,5.1,1.5,Iris-virginica

130 6.1,2.6,5.6,1.4,Iris-virginica

131 7.7,<null>,6.1,2.3,Iris-virginica

132 6.0,3.0,4.8,1.8,Iris-virginica

133 6.9,3.1,5.4,<null>,Iris-virginica

134 6.7,3.1,5.6,2.4,Iris-virginica

135 6.9,3.1,<null>,2.3,Iris-virginica

136 5.8,2.7,<null>,1.9,Iris-virginica

137 6.8,3.2,5.9,2.3,Iris-virginica

138 6.7,3.3,5.7,2.5,Iris-virginica

139 6.7,3.0,5.2,2.3,Iris-virginica

140 6.3,2.5,5.0,1.9,Iris-virginica

141 6.5,3.0,5.2,2.0,Iris-virginica

142 6.2,3.4,5.4,2.3,Iris-virginica

143 5.9,3.0,5.1,1.8,Iris-virginica

[[12]]

X.relation.iris.MV

1 @attribute SepalLength real [4.3, 7.9]

2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

9 5.0,3.4,1.5,0.2,Iris-setosa

10 4.3,3.0,1.1,0.1,Iris-setosa

11 4.8,3.1,1.6,0.2,Iris-setosa

12 4.9,3.1,1.5,0.1,Iris-setosa

13 5.1,3.4,1.5,0.2,Iris-setosa

14 5.8,2.7,4.1,1.0,Iris-versicolor

15 5.9,3.2,4.8,1.8,Iris-versicolor

16 6.4,2.9,4.3,1.3,Iris-versicolor

17 5.5,2.4,3.8,1.1,Iris-versicolor

18 5.8,2.7,3.9,1.2,Iris-versicolor

19 6.3,2.9,5.6,1.8,Iris-virginica

20 7.9,3.8,6.4,2.0,Iris-virginica

21 6.4,2.8,5.6,2.2,Iris-virginica

22 6.3,3.4,5.6,2.4,Iris-virginica

23 6.4,3.1,5.5,1.8,Iris-virginica

[[13]]

X.relation.iris.MV

1 @attribute SepalLength real [4.3, 7.9]

2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

9 5.1,3.5,1.4,0.2,Iris-setosa

10 4.9,3.0,1.4,0.2,Iris-setosa

11 4.7,<null>,1.3,0.2,Iris-setosa

12 5.0,3.6,1.4,0.2,Iris-setosa

13 5.4,3.9,1.7,0.4,Iris-setosa

14 5.0,3.4,1.5,0.2,Iris-setosa

15 4.4,2.9,1.4,0.2,Iris-setosa

16 4.9,3.1,1.5,0.1,Iris-setosa

17 4.8,3.4,<null>,0.2,Iris-setosa

18 4.8,<null>,1.4,0.1,Iris-setosa

19 <null>,3.0,1.1,0.1,Iris-setosa

20 5.8,4.0,1.2,0.2,Iris-setosa

21 5.7,4.4,1.5,0.4,Iris-setosa

22 5.4,3.9,1.3,<null>,Iris-setosa

23 5.1,3.5,1.4,0.3,Iris-setosa

24 5.7,3.8,1.7,0.3,Iris-setosa

25 5.1,3.8,1.5,0.3,Iris-setosa

26 5.1,3.7,<null>,0.4,Iris-setosa

27 4.6,3.6,1.0,0.2,Iris-setosa

28 <null>,3.3,1.7,0.5,Iris-setosa

29 4.8,3.4,1.9,0.2,Iris-setosa

30 5.0,3.4,1.6,0.4,Iris-setosa

31 5.2,3.5,1.5,0.2,Iris-setosa

32 5.2,<null>,1.4,0.2,Iris-setosa

33 4.7,3.2,1.6,0.2,Iris-setosa

34 <null>,3.1,1.6,0.2,Iris-setosa

35 5.4,3.4,1.5,0.4,Iris-setosa

36 5.2,4.1,1.5,<null>,Iris-setosa

37 5.5,4.2,<null>,0.2,Iris-setosa

38 4.9,3.1,1.5,0.1,Iris-setosa

39 <null>,3.2,1.2,0.2,Iris-setosa

40 5.5,3.5,1.3,0.2,Iris-setosa

41 4.9,3.1,1.5,<null>,Iris-setosa

42 4.4,3.0,1.3,0.2,Iris-setosa

43 5.1,3.4,1.5,0.2,Iris-setosa

44 5.0,<null>,1.3,<null>,Iris-setosa

45 4.5,<null>,1.3,0.3,Iris-setosa

46 4.4,3.2,1.3,0.2,Iris-setosa

47 <null>,3.5,<null>,0.6,Iris-setosa

48 <null>,3.8,1.9,0.4,Iris-setosa

49 4.8,3.0,1.4,0.3,Iris-setosa

50 5.1,3.8,1.6,0.2,Iris-setosa

51 4.6,3.2,<null>,0.2,Iris-setosa

52 5.3,3.7,1.5,0.2,Iris-setosa

53 5.0,3.3,1.4,0.2,Iris-setosa

54 7.0,3.2,<null>,1.4,Iris-versicolor

55 6.4,3.2,<null>,1.5,Iris-versicolor

56 5.5,2.3,4.0,1.3,Iris-versicolor

57 6.5,2.8,4.6,1.5,Iris-versicolor

58 5.7,2.8,4.5,1.3,Iris-versicolor

59 6.3,3.3,4.7,1.6,Iris-versicolor

60 4.9,2.4,<null>,1.0,Iris-versicolor

61 6.6,2.9,4.6,1.3,Iris-versicolor

62 5.2,2.7,3.9,1.4,Iris-versicolor

63 <null>,3.0,4.2,1.5,Iris-versicolor

64 6.0,2.2,4.0,1.0,Iris-versicolor

65 6.1,2.9,4.7,1.4,Iris-versicolor

66 5.6,2.9,3.6,<null>,Iris-versicolor

67 6.7,3.1,4.4,1.4,Iris-versicolor

68 5.6,3.0,4.5,1.5,Iris-versicolor

69 5.8,2.7,4.1,1.0,Iris-versicolor

70 6.2,2.2,<null>,1.5,Iris-versicolor

71 5.6,2.5,<null>,1.1,Iris-versicolor

72 5.9,3.2,4.8,1.8,Iris-versicolor

73 6.1,2.8,4.0,1.3,Iris-versicolor

74 6.3,2.5,4.9,1.5,Iris-versicolor

75 6.4,2.9,4.3,1.3,Iris-versicolor

76 6.6,3.0,4.4,1.4,Iris-versicolor

77 6.8,2.8,4.8,1.4,Iris-versicolor

78 6.7,3.0,5.0,<null>,Iris-versicolor

79 6.0,2.9,4.5,1.5,Iris-versicolor

80 5.7,2.6,<null>,1.0,Iris-versicolor

81 <null>,2.4,3.8,1.1,Iris-versicolor

82 5.8,2.7,3.9,1.2,Iris-versicolor

83 6.0,<null>,5.1,1.6,Iris-versicolor

84 <null>,3.0,4.5,1.5,Iris-versicolor

85 6.0,3.4,4.5,1.6,Iris-versicolor

86 <null>,3.1,4.7,1.5,Iris-versicolor

87 6.3,2.3,4.4,1.3,Iris-versicolor

88 5.6,3.0,4.1,1.3,Iris-versicolor

89 5.5,2.5,4.0,1.3,Iris-versicolor

90 5.5,2.6,4.4,1.2,Iris-versicolor

91 6.1,3.0,4.6,1.4,Iris-versicolor

92 5.8,<null>,4.0,1.2,Iris-versicolor

93 5.0,2.3,3.3,1.0,Iris-versicolor

94 5.6,2.7,4.2,1.3,Iris-versicolor

95 5.7,3.0,4.2,1.2,Iris-versicolor

96 5.7,2.9,4.2,1.3,Iris-versicolor

97 5.1,2.5,3.0,1.1,Iris-versicolor

98 5.7,2.8,<null>,1.3,Iris-versicolor

99 6.3,3.3,6.0,2.5,Iris-virginica

100 5.8,<null>,5.1,1.9,Iris-virginica

101 7.1,<null>,5.9,2.1,Iris-virginica

102 6.3,2.9,5.6,1.8,Iris-virginica

103 6.5,3.0,5.8,2.2,Iris-virginica

104 <null>,3.0,6.6,2.1,Iris-virginica

105 4.9,2.5,4.5,1.7,Iris-virginica

106 7.3,2.9,6.3,1.8,Iris-virginica

107 6.5,3.2,5.1,2.0,Iris-virginica

108 6.4,2.7,5.3,<null>,Iris-virginica

109 5.7,2.5,<null>,2.0,Iris-virginica

110 5.8,2.8,<null>,2.4,Iris-virginica

111 <null>,3.2,5.3,<null>,Iris-virginica

112 6.5,3.0,5.5,1.8,Iris-virginica

113 7.7,3.8,6.7,2.2,Iris-virginica

114 7.7,2.6,6.9,2.3,Iris-virginica

115 6.0,2.2,5.0,1.5,Iris-virginica

116 6.9,3.2,<null>,2.3,Iris-virginica

117 5.6,2.8,4.9,2.0,Iris-virginica

118 7.7,<null>,<null>,2.0,Iris-virginica

119 6.7,3.3,5.7,2.1,Iris-virginica

120 7.2,3.2,6.0,1.8,Iris-virginica

121 6.2,2.8,4.8,1.8,Iris-virginica

122 6.1,3.0,4.9,1.8,Iris-virginica

123 7.2,3.0,5.8,1.6,Iris-virginica

124 7.4,2.8,6.1,1.9,Iris-virginica

125 <null>,3.8,6.4,2.0,Iris-virginica

126 6.4,2.8,<null>,2.2,Iris-virginica

127 <null>,2.8,5.1,<null>,Iris-virginica

128 6.1,2.6,5.6,1.4,Iris-virginica

129 7.7,3.0,6.1,2.3,Iris-virginica

130 6.3,3.4,5.6,2.4,Iris-virginica

131 6.4,<null>,5.5,1.8,Iris-virginica

132 6.0,3.0,4.8,1.8,Iris-virginica

133 6.9,3.1,5.4,<null>,Iris-virginica

134 6.7,3.1,5.6,2.4,Iris-virginica

135 6.9,3.1,<null>,2.3,Iris-virginica

136 5.8,2.7,<null>,1.9,Iris-virginica

137 6.8,3.2,5.9,2.3,Iris-virginica

138 6.7,3.3,5.7,2.5,Iris-virginica

139 6.7,3.0,5.2,2.3,Iris-virginica

140 6.3,2.5,5.0,1.9,Iris-virginica

141 6.5,3.0,5.2,2.0,Iris-virginica

142 6.2,3.4,5.4,2.3,Iris-virginica

143 5.9,3.0,5.1,1.8,Iris-virginica

[[14]]

X.relation.iris.MV

1 @attribute SepalLength real [4.3, 7.9]

2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

9 4.6,3.1,1.5,0.2,Iris-setosa

10 4.6,3.4,1.4,0.3,Iris-setosa

11 5.4,3.7,1.5,0.2,Iris-setosa

12 5.4,3.4,1.7,0.2,Iris-setosa

13 5.0,3.0,1.6,0.2,Iris-setosa

14 6.9,3.1,4.9,1.5,Iris-versicolor

15 5.0,2.0,3.5,1.0,Iris-versicolor

16 6.1,2.8,4.7,1.2,Iris-versicolor

17 5.5,2.4,3.7,1.0,Iris-versicolor

18 6.2,2.9,4.3,1.3,Iris-versicolor

19 6.7,2.5,5.8,1.8,Iris-virginica

20 7.2,3.6,6.1,2.5,Iris-virginica

21 6.8,3.0,5.5,2.1,Iris-virginica

22 6.3,2.7,4.9,1.8,Iris-virginica

23 6.4,2.8,5.6,2.1,Iris-virginica

[[15]]

X.relation.iris.MV

1 @attribute SepalLength real [4.3, 7.9]

2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

9 5.1,3.5,1.4,0.2,Iris-setosa

10 4.9,3.0,1.4,0.2,Iris-setosa

11 4.7,<null>,1.3,0.2,Iris-setosa

12 4.6,3.1,1.5,0.2,Iris-setosa

13 5.0,3.6,1.4,0.2,Iris-setosa

14 5.4,3.9,1.7,0.4,Iris-setosa

15 4.6,3.4,1.4,0.3,Iris-setosa

16 5.0,3.4,1.5,0.2,Iris-setosa

17 4.4,2.9,<null>,0.2,Iris-setosa

18 4.9,<null>,1.5,0.1,Iris-setosa

19 <null>,3.7,1.5,0.2,Iris-setosa

20 4.8,3.4,1.6,0.2,Iris-setosa

21 4.8,3.0,1.4,0.1,Iris-setosa

22 4.3,3.0,1.1,<null>,Iris-setosa

23 5.8,4.0,1.2,0.2,Iris-setosa

24 5.7,4.4,1.5,0.4,Iris-setosa

25 5.1,3.5,1.4,0.3,Iris-setosa

26 5.7,3.8,<null>,0.3,Iris-setosa

27 5.1,3.8,1.5,0.3,Iris-setosa

28 <null>,3.4,1.7,0.2,Iris-setosa

29 5.1,3.7,1.5,0.4,Iris-setosa

30 4.6,3.6,1.0,0.2,Iris-setosa

31 5.1,3.3,1.7,0.5,Iris-setosa

32 4.8,<null>,1.9,0.2,Iris-setosa

33 5.0,3.0,1.6,0.2,Iris-setosa

34 <null>,3.4,1.6,0.4,Iris-setosa

35 5.2,3.4,1.4,0.2,Iris-setosa

36 4.8,3.1,1.6,<null>,Iris-setosa

37 5.4,3.4,<null>,0.4,Iris-setosa

38 5.2,4.1,1.5,0.1,Iris-setosa

39 <null>,4.2,1.4,0.2,Iris-setosa

40 4.9,3.1,1.5,0.1,Iris-setosa

41 5.0,3.2,1.2,<null>,Iris-setosa

42 5.5,3.5,1.3,0.2,Iris-setosa

43 4.4,3.0,1.3,0.2,Iris-setosa

44 5.1,<null>,1.5,<null>,Iris-setosa

45 5.0,<null>,1.3,0.3,Iris-setosa

46 4.5,2.3,1.3,0.3,Iris-setosa

47 <null>,3.2,<null>,0.2,Iris-setosa

48 <null>,3.5,1.6,0.6,Iris-setosa

49 4.8,3.0,1.4,0.3,Iris-setosa

50 5.1,3.8,1.6,0.2,Iris-setosa

51 4.6,3.2,<null>,0.2,Iris-setosa

52 5.3,3.7,1.5,0.2,Iris-setosa

53 5.0,3.3,1.4,0.2,Iris-setosa

54 7.0,3.2,<null>,1.4,Iris-versicolor

55 6.9,3.1,<null>,1.5,Iris-versicolor

56 5.5,2.3,4.0,1.3,Iris-versicolor

57 6.5,2.8,4.6,1.5,Iris-versicolor

58 5.7,2.8,4.5,1.3,Iris-versicolor

59 6.3,3.3,4.7,1.6,Iris-versicolor

60 4.9,2.4,<null>,1.0,Iris-versicolor

61 6.6,2.9,4.6,1.3,Iris-versicolor

62 5.0,2.0,3.5,1.0,Iris-versicolor

63 <null>,3.0,4.2,1.5,Iris-versicolor

64 6.0,2.2,4.0,1.0,Iris-versicolor

65 6.1,2.9,4.7,1.4,Iris-versicolor

66 6.7,3.1,4.4,<null>,Iris-versicolor

67 5.6,3.0,4.5,1.5,Iris-versicolor

68 5.8,2.7,4.1,1.0,Iris-versicolor

69 6.2,2.2,4.5,1.5,Iris-versicolor

70 5.6,2.5,<null>,1.1,Iris-versicolor

71 5.9,3.2,<null>,1.8,Iris-versicolor

72 6.1,2.8,4.0,1.3,Iris-versicolor

73 6.3,2.5,4.9,1.5,Iris-versicolor

74 6.1,2.8,4.7,1.2,Iris-versicolor

75 6.4,2.9,4.3,1.3,Iris-versicolor

76 6.6,3.0,4.4,1.4,Iris-versicolor

77 6.8,2.8,4.8,1.4,Iris-versicolor

78 6.7,3.0,5.0,<null>,Iris-versicolor

79 6.0,2.9,4.5,1.5,Iris-versicolor

80 5.7,2.6,<null>,1.0,Iris-versicolor

81 <null>,2.4,3.8,1.1,Iris-versicolor

82 5.5,2.4,3.7,1.0,Iris-versicolor

83 5.8,<null>,3.9,1.2,Iris-versicolor

84 <null>,2.7,5.1,1.6,Iris-versicolor

85 5.4,3.0,4.5,1.5,Iris-versicolor

86 <null>,3.4,4.5,1.6,Iris-versicolor

87 6.7,3.1,4.7,1.5,Iris-versicolor

88 6.3,2.3,4.4,1.3,Iris-versicolor

89 5.6,3.0,4.1,1.3,Iris-versicolor

90 5.5,2.6,4.4,1.2,Iris-versicolor

91 6.1,3.0,4.6,1.4,Iris-versicolor

92 5.8,<null>,4.0,1.2,Iris-versicolor

93 5.0,2.3,3.3,1.0,Iris-versicolor

94 5.6,2.7,4.2,1.3,Iris-versicolor

95 5.7,2.9,4.2,1.3,Iris-versicolor

96 6.2,2.9,4.3,1.3,Iris-versicolor

97 5.1,2.5,3.0,1.1,Iris-versicolor

98 5.7,2.8,<null>,1.3,Iris-versicolor

99 6.3,3.3,6.0,2.5,Iris-virginica

100 5.8,<null>,5.1,1.9,Iris-virginica

101 7.1,<null>,5.9,2.1,Iris-virginica

102 6.3,2.9,5.6,1.8,Iris-virginica

103 6.5,3.0,5.8,2.2,Iris-virginica

104 <null>,3.0,6.6,2.1,Iris-virginica

105 4.9,2.5,4.5,1.7,Iris-virginica

106 7.3,2.9,6.3,1.8,Iris-virginica

107 6.7,2.5,5.8,1.8,Iris-virginica

108 7.2,3.6,6.1,<null>,Iris-virginica

109 6.5,3.2,<null>,2.0,Iris-virginica

110 6.4,2.7,<null>,1.9,Iris-virginica

111 <null>,3.0,5.5,<null>,Iris-virginica

112 5.8,2.8,5.1,2.4,Iris-virginica

113 6.4,3.2,5.3,2.3,Iris-virginica

114 6.5,3.0,5.5,1.8,Iris-virginica

115 7.7,3.8,6.7,2.2,Iris-virginica

116 7.7,2.6,<null>,2.3,Iris-virginica

117 6.0,2.2,5.0,1.5,Iris-virginica

118 6.9,<null>,<null>,2.3,Iris-virginica

119 5.6,2.8,4.9,2.0,Iris-virginica

120 7.7,2.8,6.7,2.0,Iris-virginica

121 6.3,2.7,4.9,1.8,Iris-virginica

122 7.2,3.2,6.0,1.8,Iris-virginica

123 6.2,2.8,4.8,1.8,Iris-virginica

124 6.1,3.0,4.9,1.8,Iris-virginica

125 <null>,2.8,5.6,2.1,Iris-virginica

126 7.2,3.0,<null>,1.6,Iris-virginica

127 <null>,2.8,6.1,<null>,Iris-virginica

128 7.9,3.8,6.4,2.0,Iris-virginica

129 6.4,2.8,5.6,2.2,Iris-virginica

130 6.3,2.8,5.1,1.5,Iris-virginica

131 6.1,<null>,5.6,1.4,Iris-virginica

132 7.7,3.0,6.1,2.3,Iris-virginica

133 6.3,3.4,5.6,<null>,Iris-virginica

134 6.4,3.1,5.5,1.8,Iris-virginica

135 6.9,3.1,<null>,2.1,Iris-virginica

136 6.7,3.1,<null>,2.4,Iris-virginica

137 6.9,3.1,5.1,2.3,Iris-virginica

138 6.8,3.2,5.9,2.3,Iris-virginica

139 6.7,3.0,5.2,2.3,Iris-virginica

140 6.3,2.5,5.0,1.9,Iris-virginica

141 6.5,3.0,5.2,2.0,Iris-virginica

142 6.2,3.4,5.4,2.3,Iris-virginica

143 5.9,3.0,5.1,1.8,Iris-virginica

[[16]]

X.relation.iris.MV

1 @attribute SepalLength real [4.3, 7.9]

2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

9 5.4,3.9,1.3,0.4,Iris-setosa

10 5.2,3.5,1.5,0.2,Iris-setosa

11 4.7,3.2,1.6,0.2,Iris-setosa

12 4.9,3.1,1.5,0.1,Iris-setosa

13 5.1,3.8,1.9,0.4,Iris-setosa

14 6.4,3.2,4.5,1.5,Iris-versicolor

15 5.2,2.7,3.9,1.4,Iris-versicolor

16 5.6,2.9,3.6,1.3,Iris-versicolor

17 5.5,2.5,4.0,1.3,Iris-versicolor

18 5.7,3.0,4.2,1.2,Iris-versicolor

19 5.7,2.5,5.0,2.0,Iris-virginica

20 6.7,3.3,5.7,2.1,Iris-virginica

21 6.0,3.0,4.8,1.8,Iris-virginica

22 5.8,2.7,5.1,1.9,Iris-virginica

23 6.7,3.3,5.7,2.5,Iris-virginica

[[17]]

X.relation.iris.MV

1 @attribute SepalLength real [4.3, 7.9]

2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

9 5.1,3.5,1.4,0.2,Iris-setosa

10 4.9,3.0,1.4,0.2,Iris-setosa

11 4.7,<null>,1.3,0.2,Iris-setosa

12 4.6,3.1,1.5,0.2,Iris-setosa

13 5.0,3.6,1.4,0.2,Iris-setosa

14 5.4,3.9,1.7,0.4,Iris-setosa

15 4.6,3.4,1.4,0.3,Iris-setosa

16 5.0,3.4,1.5,0.2,Iris-setosa

17 4.4,2.9,<null>,0.2,Iris-setosa

18 4.9,<null>,1.5,0.1,Iris-setosa

19 <null>,3.7,1.5,0.2,Iris-setosa

20 4.8,3.4,1.6,0.2,Iris-setosa

21 4.8,3.0,1.4,0.1,Iris-setosa

22 4.3,3.0,1.1,<null>,Iris-setosa

23 5.8,4.0,1.2,0.2,Iris-setosa

24 5.7,4.4,1.5,0.4,Iris-setosa

25 5.4,3.9,1.3,0.4,Iris-setosa

26 5.1,3.5,<null>,0.3,Iris-setosa

27 5.7,3.8,1.7,0.3,Iris-setosa

28 <null>,3.8,1.5,0.3,Iris-setosa

29 5.4,3.4,1.7,0.2,Iris-setosa

30 5.1,3.7,1.5,0.4,Iris-setosa

31 5.1,3.3,1.7,0.5,Iris-setosa

32 4.8,<null>,1.9,0.2,Iris-setosa

33 5.0,3.0,1.6,0.2,Iris-setosa

34 <null>,3.4,1.6,0.4,Iris-setosa

35 5.2,3.5,1.5,0.2,Iris-setosa

36 5.2,3.4,1.4,<null>,Iris-setosa

37 4.7,3.2,<null>,0.2,Iris-setosa

38 4.8,3.1,1.6,0.2,Iris-setosa

39 <null>,3.4,1.5,0.4,Iris-setosa

40 5.2,4.1,1.5,0.1,Iris-setosa

41 5.5,4.2,1.4,<null>,Iris-setosa

42 4.9,3.1,1.5,0.1,Iris-setosa

43 5.5,3.5,1.3,0.2,Iris-setosa

44 4.9,<null>,1.5,<null>,Iris-setosa

45 4.4,<null>,1.3,0.2,Iris-setosa

46 5.1,3.4,1.5,0.2,Iris-setosa

47 <null>,3.5,<null>,0.3,Iris-setosa

48 <null>,2.3,1.3,0.3,Iris-setosa

49 4.4,3.2,1.3,0.2,Iris-setosa

50 5.0,3.5,1.6,0.6,Iris-setosa

51 5.1,3.8,<null>,0.4,Iris-setosa

52 5.1,3.8,1.6,0.2,Iris-setosa

53 5.3,3.7,1.5,0.2,Iris-setosa

54 7.0,3.2,<null>,1.4,Iris-versicolor

55 6.4,3.2,<null>,1.5,Iris-versicolor

56 6.9,3.1,4.9,1.5,Iris-versicolor

57 6.5,2.8,4.6,1.5,Iris-versicolor

58 5.7,2.8,4.5,1.3,Iris-versicolor

59 6.3,3.3,4.7,1.6,Iris-versicolor

60 6.6,2.9,<null>,1.3,Iris-versicolor

61 5.2,2.7,3.9,1.4,Iris-versicolor

62 5.0,2.0,3.5,1.0,Iris-versicolor

63 <null>,2.2,4.0,1.0,Iris-versicolor

64 6.1,2.9,4.7,1.4,Iris-versicolor

65 5.6,2.9,3.6,1.3,Iris-versicolor

66 6.7,3.1,4.4,<null>,Iris-versicolor

67 5.6,3.0,4.5,1.5,Iris-versicolor

68 5.8,2.7,4.1,1.0,Iris-versicolor

69 6.2,2.2,4.5,1.5,Iris-versicolor

70 5.9,3.2,<null>,1.8,Iris-versicolor

71 6.1,2.8,<null>,1.3,Iris-versicolor

72 6.1,2.8,4.7,1.2,Iris-versicolor

73 6.4,2.9,4.3,1.3,Iris-versicolor

74 6.6,3.0,4.4,1.4,Iris-versicolor

75 6.8,2.8,4.8,1.4,Iris-versicolor

76 6.7,3.0,5.0,1.7,Iris-versicolor

77 6.0,2.9,4.5,1.5,Iris-versicolor

78 5.7,2.6,3.5,<null>,Iris-versicolor

79 5.5,2.4,3.8,1.1,Iris-versicolor

80 5.5,2.4,<null>,1.0,Iris-versicolor

81 <null>,2.7,3.9,1.2,Iris-versicolor

82 6.0,2.7,5.1,1.6,Iris-versicolor

83 5.4,<null>,4.5,1.5,Iris-versicolor

84 <null>,3.4,4.5,1.6,Iris-versicolor

85 6.7,3.1,4.7,1.5,Iris-versicolor

86 <null>,2.3,4.4,1.3,Iris-versicolor

87 5.6,3.0,4.1,1.3,Iris-versicolor

88 5.5,2.5,4.0,1.3,Iris-versicolor

89 5.5,2.6,4.4,1.2,Iris-versicolor

90 6.1,3.0,4.6,1.4,Iris-versicolor

91 5.8,2.6,4.0,1.2,Iris-versicolor

92 5.0,<null>,3.3,1.0,Iris-versicolor

93 5.6,2.7,4.2,1.3,Iris-versicolor

94 5.7,3.0,4.2,1.2,Iris-versicolor

95 5.7,2.9,4.2,1.3,Iris-versicolor

96 6.2,2.9,4.3,1.3,Iris-versicolor

97 5.1,2.5,3.0,1.1,Iris-versicolor

98 5.7,2.8,<null>,1.3,Iris-versicolor

99 6.3,3.3,6.0,2.5,Iris-virginica

100 5.8,<null>,5.1,1.9,Iris-virginica

101 7.1,<null>,5.9,2.1,Iris-virginica

102 6.3,2.9,5.6,1.8,Iris-virginica

103 6.5,3.0,5.8,2.2,Iris-virginica

104 <null>,3.0,6.6,2.1,Iris-virginica

105 4.9,2.5,4.5,1.7,Iris-virginica

106 7.3,2.9,6.3,1.8,Iris-virginica

107 6.7,2.5,5.8,1.8,Iris-virginica

108 7.2,3.6,6.1,<null>,Iris-virginica

109 6.5,3.2,<null>,2.0,Iris-virginica

110 6.8,3.0,<null>,2.1,Iris-virginica

111 <null>,2.5,5.0,<null>,Iris-virginica

112 5.8,2.8,5.1,2.4,Iris-virginica

113 6.4,3.2,5.3,2.3,Iris-virginica

114 6.5,3.0,5.5,1.8,Iris-virginica

115 7.7,2.6,6.9,2.3,Iris-virginica

116 6.0,2.2,<null>,1.5,Iris-virginica

117 6.9,3.2,5.7,2.3,Iris-virginica

118 5.6,<null>,<null>,2.0,Iris-virginica

119 7.7,2.8,6.7,2.0,Iris-virginica

120 6.3,2.7,4.9,1.8,Iris-virginica

121 6.7,3.3,5.7,2.1,Iris-virginica

122 7.2,3.2,6.0,1.8,Iris-virginica

123 6.2,2.8,4.8,1.8,Iris-virginica

124 6.1,3.0,4.9,1.8,Iris-virginica

125 <null>,2.8,5.6,2.1,Iris-virginica

126 7.2,3.0,<null>,1.6,Iris-virginica

127 <null>,2.8,6.1,<null>,Iris-virginica

128 7.9,3.8,6.4,2.0,Iris-virginica

129 6.4,2.8,5.6,2.2,Iris-virginica

130 6.3,2.8,5.1,1.5,Iris-virginica

131 6.1,<null>,5.6,1.4,Iris-virginica

132 6.3,3.4,5.6,2.4,Iris-virginica

133 6.4,3.1,5.5,<null>,Iris-virginica

134 6.0,3.0,4.8,1.8,Iris-virginica

135 6.9,3.1,<null>,2.1,Iris-virginica

136 5.8,2.7,<null>,1.9,Iris-virginica

137 6.8,3.2,5.9,2.3,Iris-virginica

138 6.7,3.3,5.7,2.5,Iris-virginica

139 6.7,3.0,5.2,2.3,Iris-virginica

140 6.3,2.5,5.0,1.9,Iris-virginica

141 6.5,3.0,5.2,2.0,Iris-virginica

142 6.2,3.4,5.4,2.3,Iris-virginica

143 5.9,3.0,5.1,1.8,Iris-virginica

[[18]]

X.relation.iris.MV

1 @attribute SepalLength real [4.3, 7.9]

2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

9 4.6,3.6,1.0,0.2,Iris-setosa

10 5.0,3.2,1.2,0.2,Iris-setosa

11 4.8,3.0,1.4,0.3,Iris-setosa

12 4.6,3.2,1.4,0.2,Iris-setosa

13 5.0,3.3,1.4,0.2,Iris-setosa

14 5.5,2.3,4.0,1.3,Iris-versicolor

15 4.9,2.4,3.3,1.0,Iris-versicolor

16 5.9,3.0,4.2,1.5,Iris-versicolor

17 5.6,2.5,3.9,1.1,Iris-versicolor

18 6.3,2.5,4.9,1.5,Iris-versicolor

19 6.4,2.7,5.3,1.9,Iris-virginica

20 7.7,3.8,6.7,2.2,Iris-virginica

21 7.7,3.0,6.1,2.3,Iris-virginica

22 6.7,3.1,5.6,2.4,Iris-virginica

23 6.9,3.1,5.1,2.3,Iris-virginica

[[19]]

X.relation.iris.MV

1 @attribute SepalLength real [4.3, 7.9]

2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

9 5.1,3.5,1.4,0.2,Iris-setosa

10 4.9,3.0,1.4,0.2,Iris-setosa

11 4.6,<null>,1.5,0.2,Iris-setosa

12 5.0,3.6,1.4,0.2,Iris-setosa

13 5.4,3.9,1.7,0.4,Iris-setosa

14 4.6,3.4,1.4,0.3,Iris-setosa

15 5.0,3.4,1.5,0.2,Iris-setosa

16 4.4,2.9,1.4,0.2,Iris-setosa

17 5.4,3.7,<null>,0.2,Iris-setosa

18 4.8,<null>,1.6,0.2,Iris-setosa

19 <null>,3.0,1.4,0.1,Iris-setosa

20 4.3,3.0,1.1,0.1,Iris-setosa

21 5.7,4.4,1.5,0.4,Iris-setosa

22 5.4,3.9,1.3,<null>,Iris-setosa

23 5.1,3.5,1.4,0.3,Iris-setosa

24 5.7,3.8,1.7,0.3,Iris-setosa

25 5.1,3.8,1.5,0.3,Iris-setosa

26 5.4,3.4,<null>,0.2,Iris-setosa

27 5.1,3.7,1.5,0.4,Iris-setosa

28 <null>,3.6,1.0,0.2,Iris-setosa

29 5.1,3.3,1.7,0.5,Iris-setosa

30 4.8,3.4,1.9,0.2,Iris-setosa

31 5.0,3.0,1.6,0.2,Iris-setosa

32 5.0,<null>,1.6,0.4,Iris-setosa

33 5.2,3.5,1.5,0.2,Iris-setosa

34 <null>,3.4,1.4,0.2,Iris-setosa

35 4.7,3.2,1.6,0.2,Iris-setosa

36 4.8,3.1,1.6,<null>,Iris-setosa

37 5.4,3.4,<null>,0.4,Iris-setosa

38 5.2,4.1,1.5,0.1,Iris-setosa

39 <null>,4.2,1.4,0.2,Iris-setosa

40 4.9,3.1,1.5,0.1,Iris-setosa

41 5.0,3.2,1.2,<null>,Iris-setosa

42 5.5,3.5,1.3,0.2,Iris-setosa

43 4.9,3.1,1.5,0.1,Iris-setosa

44 4.4,<null>,1.3,<null>,Iris-setosa

45 5.1,<null>,1.5,0.2,Iris-setosa

46 5.0,3.5,1.3,0.3,Iris-setosa

47 <null>,2.3,<null>,0.3,Iris-setosa

48 <null>,3.8,1.9,0.4,Iris-setosa

49 4.8,3.0,1.4,0.3,Iris-setosa

50 5.1,3.8,1.6,0.2,Iris-setosa

51 4.6,3.2,<null>,0.2,Iris-setosa

52 5.3,3.7,1.5,0.2,Iris-setosa

53 5.0,3.3,1.4,0.2,Iris-setosa

54 7.0,3.2,<null>,1.4,Iris-versicolor

55 6.4,3.2,<null>,1.5,Iris-versicolor

56 6.9,3.1,4.9,1.5,Iris-versicolor

57 5.5,2.3,4.0,1.3,Iris-versicolor

58 5.7,2.8,4.5,1.3,Iris-versicolor

59 6.3,3.3,4.7,1.6,Iris-versicolor

60 4.9,2.4,<null>,1.0,Iris-versicolor

61 5.2,2.7,3.9,1.4,Iris-versicolor

62 5.0,2.0,3.5,1.0,Iris-versicolor

63 <null>,3.0,4.2,1.5,Iris-versicolor

64 6.0,2.2,4.0,1.0,Iris-versicolor

65 6.1,2.9,4.7,1.4,Iris-versicolor

66 5.6,2.9,3.6,<null>,Iris-versicolor

67 6.7,3.1,4.4,1.4,Iris-versicolor

68 5.6,3.0,4.5,1.5,Iris-versicolor

69 5.8,2.7,4.1,1.0,Iris-versicolor

70 6.2,2.2,<null>,1.5,Iris-versicolor

71 5.6,2.5,<null>,1.1,Iris-versicolor

72 5.9,3.2,4.8,1.8,Iris-versicolor

73 6.1,2.8,4.0,1.3,Iris-versicolor

74 6.3,2.5,4.9,1.5,Iris-versicolor

75 6.1,2.8,4.7,1.2,Iris-versicolor

76 6.4,2.9,4.3,1.3,Iris-versicolor

77 6.6,3.0,4.4,1.4,Iris-versicolor

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80 5.5,2.4,<null>,1.1,Iris-versicolor

81 <null>,2.4,3.7,1.0,Iris-versicolor

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98 5.7,2.8,<null>,1.3,Iris-versicolor

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2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

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10 4.9,3.1,1.5,0.1,Iris-setosa

11 5.8,4.0,1.2,0.2,Iris-setosa

12 4.4,3.2,1.3,0.2,Iris-setosa

13 5.0,3.5,1.6,0.6,Iris-setosa

14 6.5,2.8,4.6,1.5,Iris-versicolor

15 6.6,2.9,4.6,1.3,Iris-versicolor

16 6.8,2.8,4.8,1.4,Iris-versicolor

17 6.0,2.9,4.5,1.5,Iris-versicolor

18 6.0,3.4,4.5,1.6,Iris-versicolor

19 6.5,3.0,5.5,1.8,Iris-virginica

20 7.7,2.6,6.9,2.3,Iris-virginica

21 6.0,2.2,5.0,1.5,Iris-virginica

22 6.9,3.2,5.7,2.3,Iris-virginica

23 6.2,2.8,4.8,1.8,Iris-virginica

Dark <-toJson(out)

Prettify(dark)

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}

]

]

iris\_dat <- as.data.frame(dark, optional = FALSE)

print(iris\_dat)

class(iris\_dat)

is.data.frame(iris\_dat)

**# Part V**

# Print the summary of iris\_data

gel <- read.delim("C:/Users/admin/Documents/GitHub/iris\_dat/001.dat")

Gel

X.relation.iris.MV

1 @attribute SepalLength real [4.3, 7.9]

2 @attribute SepalWidth real [2.0, 4.4]

3 @attribute PetalLength real [1.0, 6.9]

4 @attribute PetalWidth real [0.1, 2.5]

5 @attribute Class {Iris-setosa, Iris-versicolor, Iris-virginica}

6 @inputs SepalLength, SepalWidth, PetalLength, PetalWidth

7 @outputs Class

8 @data

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10 4.6,3.1,1.5,0.2,Iris-setosa

11 5.0,<null>,1.4,0.2,Iris-setosa

12 5.4,3.9,1.7,0.4,Iris-setosa

13 4.6,3.4,1.4,0.3,Iris-setosa

14 5.0,3.4,1.5,0.2,Iris-setosa

15 4.4,2.9,1.4,0.2,Iris-setosa

16 4.9,3.1,1.5,0.1,Iris-setosa

17 5.4,3.7,<null>,0.2,Iris-setosa

18 4.8,<null>,1.6,0.2,Iris-setosa

19 <null>,3.0,1.1,0.1,Iris-setosa

20 5.8,4.0,1.2,0.2,Iris-setosa

21 5.4,3.9,1.3,0.4,Iris-setosa

22 5.1,3.5,1.4,<null>,Iris-setosa

23 5.7,3.8,1.7,0.3,Iris-setosa

24 5.1,3.8,1.5,0.3,Iris-setosa

25 5.4,3.4,1.7,0.2,Iris-setosa

26 5.1,3.7,<null>,0.4,Iris-setosa

27 4.6,3.6,1.0,0.2,Iris-setosa

28 <null>,3.3,1.7,0.5,Iris-setosa

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30 5.0,3.0,1.6,0.2,Iris-setosa

31 5.0,3.4,1.6,0.4,Iris-setosa

32 5.2,<null>,1.5,0.2,Iris-setosa

33 5.2,3.4,1.4,0.2,Iris-setosa

34 <null>,3.2,1.6,0.2,Iris-setosa

35 4.8,3.1,1.6,0.2,Iris-setosa

36 5.2,4.1,1.5,<null>,Iris-setosa

37 5.5,4.2,<null>,0.2,Iris-setosa

38 4.9,3.1,1.5,0.1,Iris-setosa

39 <null>,3.2,1.2,0.2,Iris-setosa

40 5.5,3.5,1.3,0.2,Iris-setosa

41 4.9,3.1,1.5,<null>,Iris-setosa

42 4.4,3.0,1.3,0.2,Iris-setosa

43 5.1,3.4,1.5,0.2,Iris-setosa

44 5.0,<null>,1.3,<null>,Iris-setosa

45 4.5,<null>,1.3,0.3,Iris-setosa

46 4.4,3.2,1.3,0.2,Iris-setosa

47 <null>,3.5,<null>,0.6,Iris-setosa

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51 4.6,3.2,<null>,0.2,Iris-setosa

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54 6.4,3.2,<null>,1.5,Iris-versicolor

55 6.9,3.1,<null>,1.5,Iris-versicolor

56 5.5,2.3,4.0,1.3,Iris-versicolor

57 6.5,2.8,4.6,1.5,Iris-versicolor

58 6.3,3.3,4.7,1.6,Iris-versicolor

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75 6.4,2.9,4.3,1.3,Iris-versicolor

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97 5.1,2.5,3.0,1.1,Iris-versicolor

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131 7.7,<null>,6.1,2.3,Iris-virginica

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136 6.9,3.1,<null>,2.3,Iris-virginica

137 5.8,2.7,5.1,1.9,Iris-virginica

138 6.8,3.2,5.9,2.3,Iris-virginica

139 6.7,3.3,5.7,2.5,Iris-virginica

140 6.7,3.0,5.2,2.3,Iris-virginica

141 6.3,2.5,5.0,1.9,Iris-virginica

142 6.2,3.4,5.4,2.3,Iris-virginica

143 5.9,3.0,5.1,1.8,Iris-virginica

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@attribute PetalWidth real [0.1, 2.5] : 1

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@attribute SepalWidth real [2.0, 4.4] : 1

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