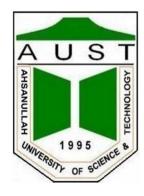
AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY (AUST) 141 & 142, Love Road, Tejgaon Industrial Area, Dhaka-1208.



Department of Computer Science and Engineering Program: Bachelor of Science in Computer Science and Engineering

> Course No: CSE 4142 Course Title: Data Warehousing and Mining Lab

Assignment 3

Date of Submission: 23/6/2024

Submitted by,

Name: MD Rafiu Alam Rafi

Id: 20200204051

Section: A

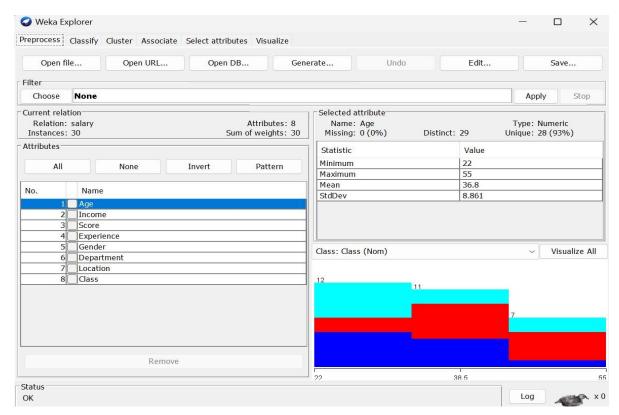
Task Processes:

(i) Creating a Custom Dataset Which Will Have 8 Attributes: 4 Numeric, 3 Nominal & 1 Class (3 Class Values). (ii) Creating 30 Instances of That Dataset.

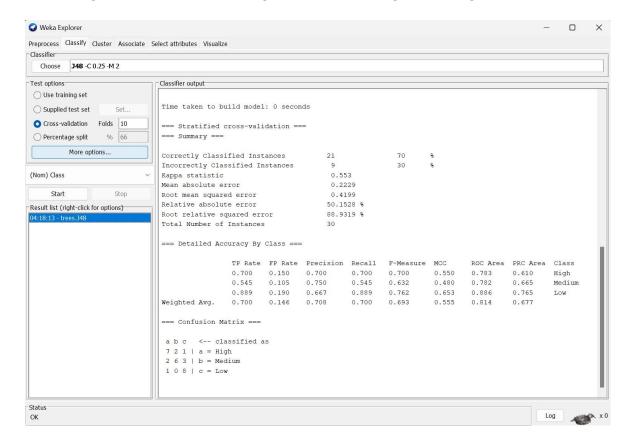
```
@attribute Age numeric
@attribute Income numeric
@attribute Score numeric
@attribute Experience numeric
@attribute Experience numeric
@attribute Gender {Male, Female, Other}
@attribute Gender {Male, Female, Other}
@attribute Department {Sales, Engineering, Marketing}
@attribute Location {Urban, Suburban, Rural}
@attribute class {High, Medium, Low}

@data

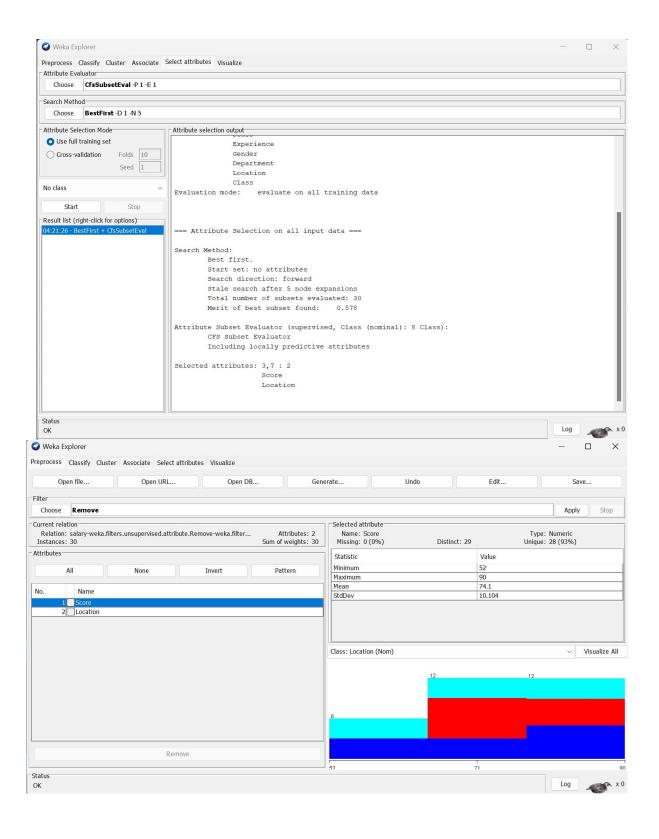
34, 54000, 75, 10, Male, Sales, Urban, Medium
28, 62000, 38, 5, Female, Engineering, Suburban, High
45, 78000, 52, 20, Male, Marketing, Rural, Low
50, 85000, 60, 25, Female, Sales, Urban, Medium
23, 32000, 70, 2, Other, Engineering, Urban, High
36, 48000, 82, 12, Male, Marketing, Suburban, Medium
29, 74000, 67, 7, Female, Sales, Rural, Low
40, 96000, 90, 18, Other, Engineering, Urban, High
55, 87000, 77, 30, Male, Marketing, Suburban, Medium
22, 45000, 62, 8, Female, Sales, Rural, Low
38, 66000, 85, 15, Male, Engineering, Urban, High
47, 92000, 73, 22, Other, Marketing, Suburban, Medium
22, 31000, 58, 1, Female, Sales, Rural, Low
48, 79000, 63, 17, Male, Engineering, Urban, High
30, 57000, 65, 6, Other, Engineering, Suburban, Medium
48, 83000, 77, 23, Male, Marketing, Rural, Low
49, 88000, 79, 24, Female, Sales, Urban, High
31, 52000, 76, 4, Male, Engineering, Suburban, Medium
49, 88000, 79, 24, Female, Sales, Urban, High
31, 52000, 76, 4, Male, Engineering, Suburban, Medium
49, 88000, 79, 24, Female, Sales, Urban, High
31, 50000, 78, 21, Male, Engineering, Suburban, Medium
49, 88000, 79, 24, Female, Sales, Urban, Low
49, 88000, 79, 24, Female, Sales, Urban, High
31, 50000, 78, 21, Male, Engineering, Suburban, Medium
32, 50000, 83, Other, Sales, Urban, Low
49, 88000, 79, 24, Female, Marketing, Rural, High
49, 80000, 78, 21, Male, Engineering, Suburban, Medium
50, 50000, 81, 9, Female, Marketing, Rural, High
51, 57000, 64, 7, Other, Sales, Urban, Low
52, 57000, 63, 7, Other, Sales, Urban, Low
53, 60000, 81, 9, Female, Marketing, Rural, High
54, 80000, 61, 22, Other, Sales, Urban, Low
54, 80000, 61, 22, Other, Sales, Urban, Low
64, 91000, 87, 20, Male, Engi
```

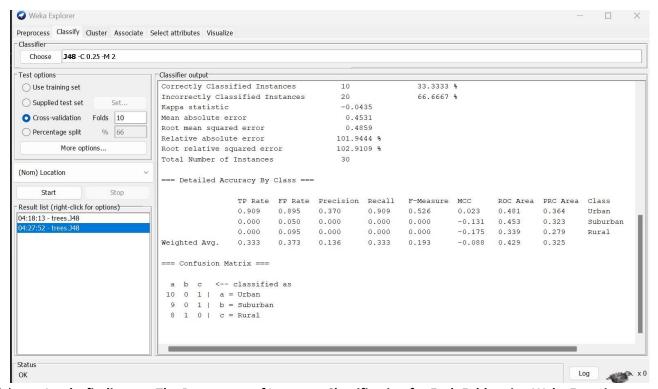


(iii) Constructing a Classification Model using J48 Decision Tree Algorithm using 10-Fold Cross Validation.



(iv)	Using Filter Method to find out those Attributes for Which the J48 Model Performs the Best (Least Number of "Inaccurately Classified Instances"). All Other Attributes are Removed.





(v) Lastly, finding out The Percentage of Incorrect Classification for Each Folds using Weka Experiment Environment.

