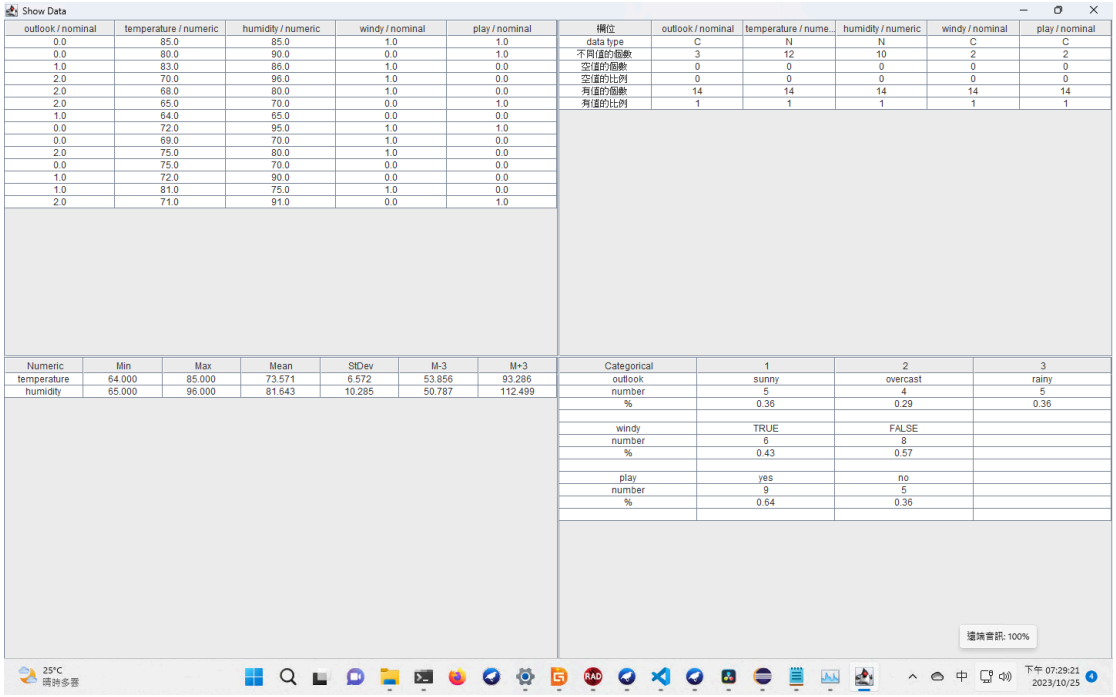
第四欄



Show Data

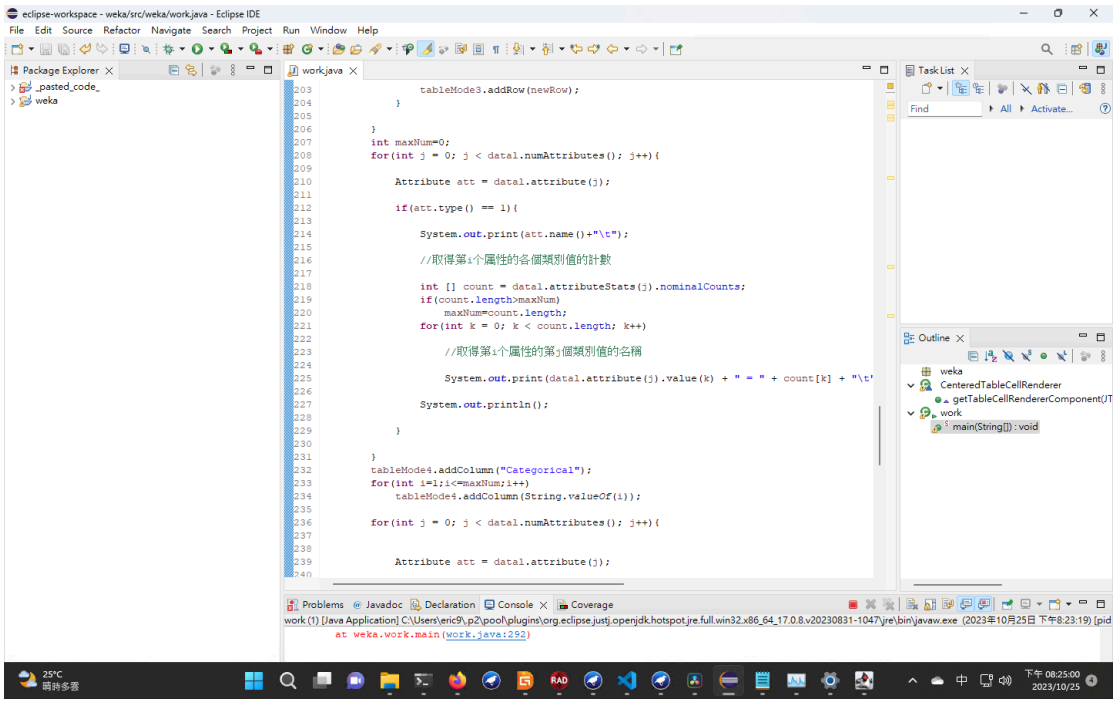
outlook / nominal	temperature / numeric	humidity / numeric	windy / nominal	play / nominal
0.0	85.0	85.0	1.0	1.0
0.0	80.0	90.0	0.0	1.0
1.0	83.0	86.0	1.0	0.0
2.0	70.0	96.0	1.0	0.0
2.0	68.0	80.0	1.0	0.0
2.0	65.0	70.0	0.0	1.0
1.0	64.0	65.0	0.0	0.0
0.0	72.0	95.0	1.0	1.0
0.0	69.0	70.0	1.0	0.0
2.0	75.0	80.0	1.0	0.0
0.0	75.0	70.0	0.0	0.0
1.0	72.0	90.0	0.0	0.0
1.0	81.0	75.0	1.0	0.0
2.0	71.0	91.0	0.0	1.0

欄位	outlook / nominal	temperature / nume...	humidity / numeric	windy / nominal	play / nominal
data type	C	N	N	C	C
不同值的個數	3	12	10	2	2
空值的個數	0	0	0	0	0
空值的比例	0	0	0	0	0
有值的個數	14	14	14	14	14
有值的比例	1	1	1	1	1

Numeric	Min	Max	Mean	StDev	M-3	M+3
temperature	64.000	85.000	73.571	6.572	53.856	93.286
humidity	65.000	96.000	81.643	10.285	50.787	112.499

Categorical	1	2	3
outlook	sunny	overcast	rainy
number	5	4	5
%	0.36	0.29	0.36
windy	TRUE	FALSE	
number	6	8	
%	0.43	0.57	
play	yes	no	
number	9	5	
%	0.64	0.36	

程式碼



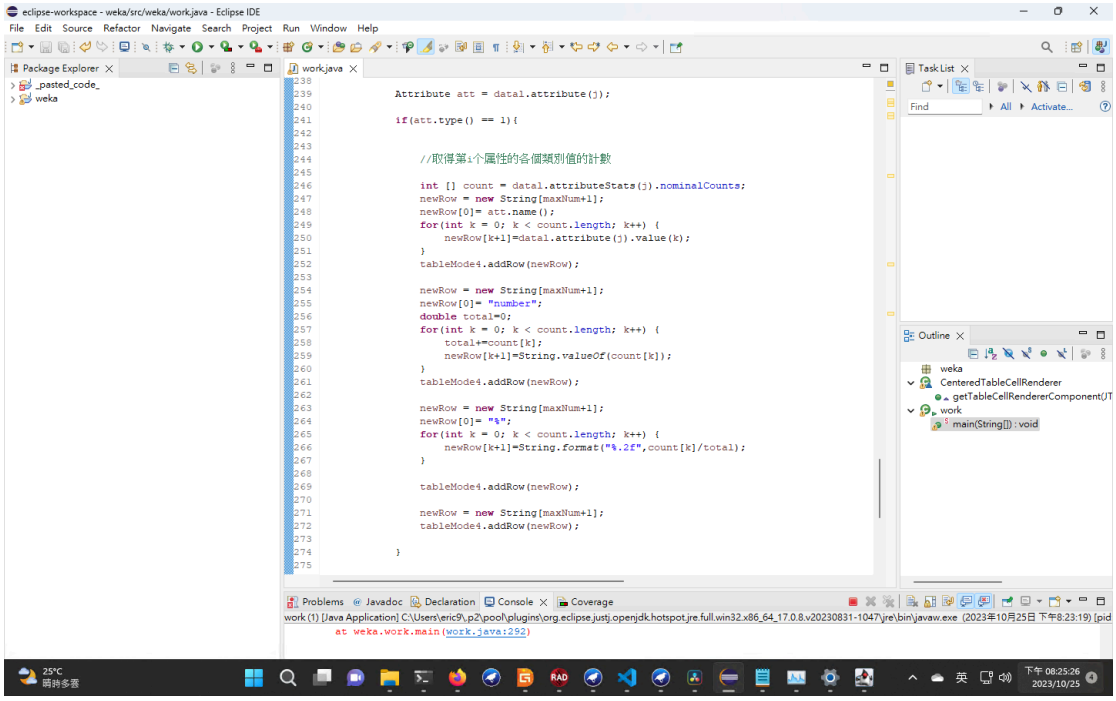
eclipse-workspace - weka/src/weka/work.java - Eclipse IDE

```
            tableMode3.addRow(newRow);
        }

    }
    int maxNum=0;
    for(int j = 0; j < data1.numAttributes(); j++){

        Attribute att = data1.attribute(j);

        if(att.type() == 1){

            System.out.print(att.name()+"\t");

            //取得第i个屬性的各個類別值的計數

            int [] count = data1.attributeStats(j).nominalCounts;
            if(count.length>maxNum)
                maxNum=count.length;
            for(int k = 0; k < count.length; k++)

                //取得第i个屬性的第j個類別值的名稱

                System.out.print(data1.attribute(j).value(k) + " = " + count[k] + "\t'

            System.out.println();

        }

    }
    tableMode4.addColumn("Categorical");
    for(int i=1;i<=maxNum;i++)
        tableMode4.addColumn(String.valueOf(i));

    for(int j = 0; j < data1.numAttributes(); j++){


        Attribute att = data1.attribute(j);
```

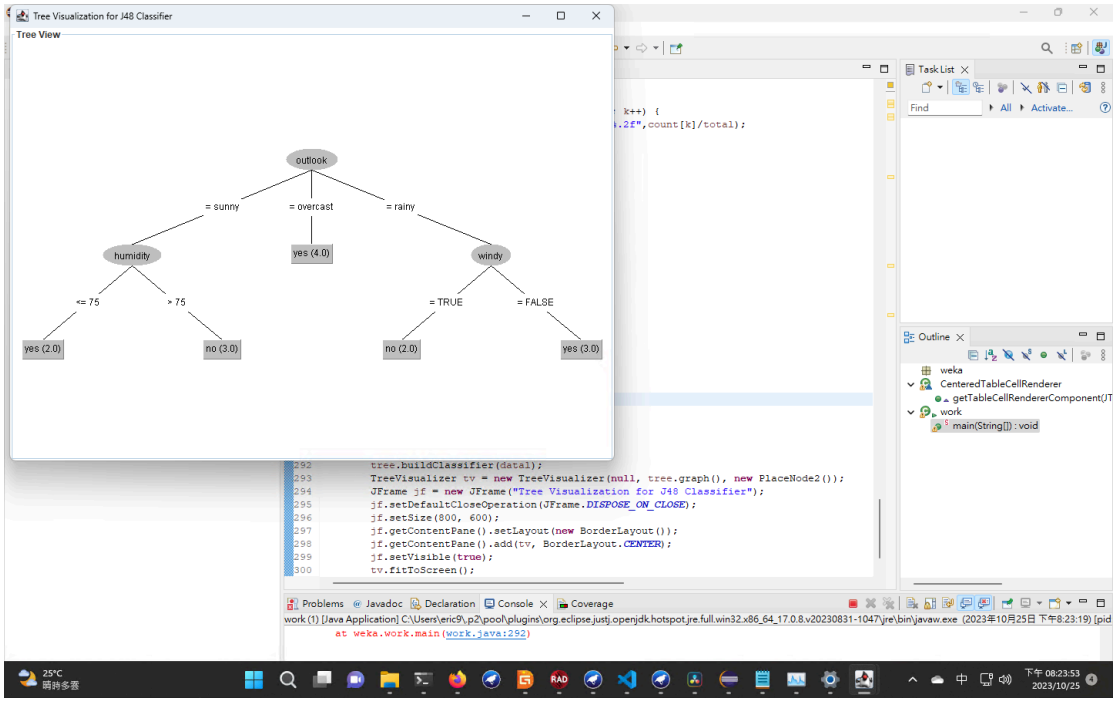
Problems | Javadoc | Declaration | Console | Coverage

work (1) [Java Application] C:\Users\eric9\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.8.v20230831-1047\jre\bin\javaw.exe (2023年10月25日 下午8:23:19) [pid

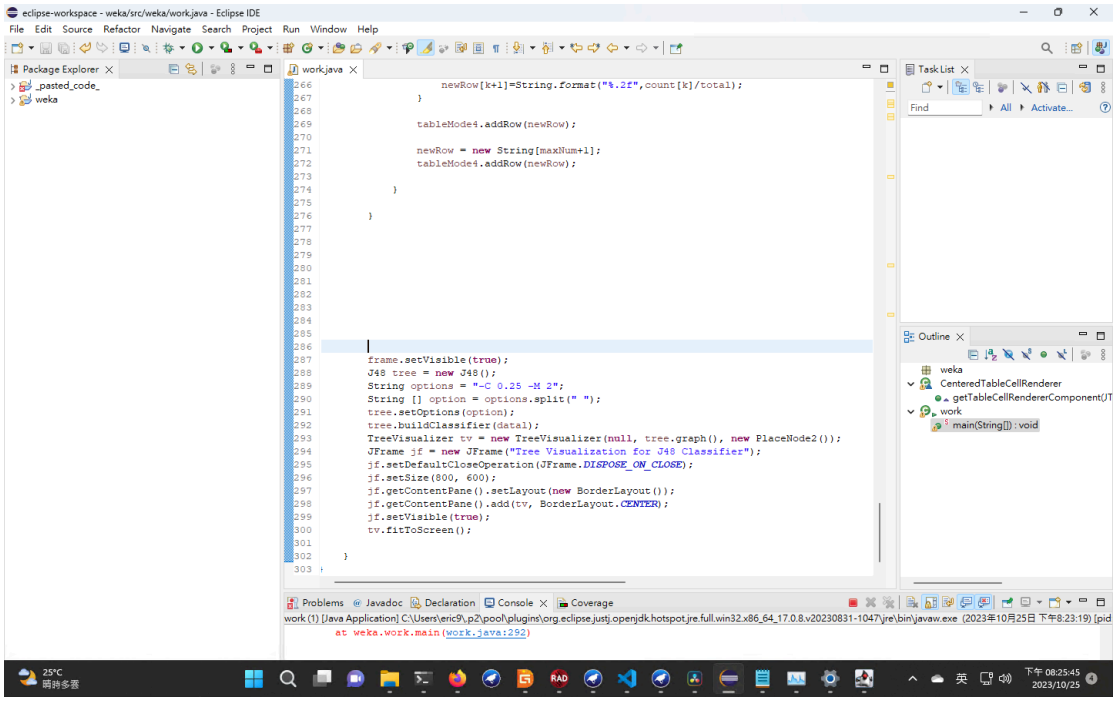
```
at weka.work.main(work.java:292)
```


eclipse-workspace - weka/src/weka/work.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
_pasted_code_
weka
work.java
Attribute att = data1.attribute(j);
if(att.type() == 1){
//取得第i个属性的各個類別值的計數
int [] count = data1.attributeStats(j).nominalCounts;
newRow = new String[maxNum+1];
newRow[0]= att.name();
for(int k = 0; k < count.length; k++) {
newRow[k+1]=data1.attribute(j).value(k);
}
tableMode4.addRow(newRow);
newRow = new String[maxNum+1];
newRow[0]= "number";
double total=0;
for(int k = 0; k < count.length; k++) {
total+=count[k];
newRow[k+1]=String.valueOf(count[k]);
}
tableMode4.addRow(newRow);
newRow = new String[maxNum+1];
newRow[0]= "%";
for(int k = 0; k < count.length; k++) {
newRow[k+1]=String.format("%.2f",count[k]/total);
}
tableMode4.addRow(newRow);
newRow = new String[maxNum+1];
tableMode4.addRow(newRow);
}
Task List
Find
All
Activate...
Outline
weka
CenteredTableCellRenderer
getTableCellRendererComponent(JT
work
main(String[]) : void
Problems
Javadoc
Declaration
Console
Coverage
work (1) [Java Application] C:\Users\eric9\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.8.v20230831-1047\jre\bin\javaw.exe (2023年10月25日 下午8:23:19) [pid
at weka.work.main(work.java:292)
25°C
晴時多雲
下午 08:25:26
2023/10/25

建樹


Tree Visualization for J48 Classifier
Tree View
outlook
= sunny
= overcast
= rainy
humidity
yes (4.0)
windy
<= 75
> 75
= TRUE
= FALSE
yes (2.0)
no (3.0)
no (2.0)
yes (3.0)
tree.buildClassifier(data1);
TreeVisualizer tv = new TreeVisualizer(null, tree.graph(), new PlaceNode2());
JFrame jf = new JFrame("Tree Visualization for J48 Classifier");
jf.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
jf.setSize(800, 600);
jf.getContentPane().setLayout(new BorderLayout());
jf.getContentPane().add(tv, BorderLayout.CENTER);
jf.setVisible(true);
tv.fitToScreen();
Task List
Find
All
Activate...
Outline
weka
CenteredTableCellRenderer
getTableCellRendererComponent(JT
work
main(String[]) : void
Problems
Javadoc
Declaration
Console
Coverage
work (1) [Java Application] C:\Users\eric9\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.8.v20230831-1047\jre\bin\javaw.exe (2023年10月25日 下午8:23:19) [pid
at weka.work.main(work.java:292)
25°C
晴時多雲
下午 08:23:53
2023/10/25

程式碼




```
                newRow[k+1]=String.format("%.2f",count[k]/total);
            }

            tableMode4.addRow(newRow);

            newRow = new String[maxNum+1];
            tableMode4.addRow(newRow);

        }

    }



    frame.setVisible(true);
    J48 tree = new J48();
    String options = "-C 0.25 -M 2";
    String [] option = options.split(" ");
    tree.setOptions(option);
    tree.buildClassifier(data1);
    TreeVisualizer tv = new TreeVisualizer(null, tree.graph(), new PlaceNode2());
    JFrame jf = new JFrame("Tree Visualization for J48 Classifier");
    jf.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
    jf.setSize(800, 600);
    jf.getContentPane().setLayout(new BorderLayout());
    jf.getContentPane().add(tv, BorderLayout.CENTER);
    jf.setVisible(true);
    tv.fitToScreen();

  }
}
```