





Source Code

Load Dataset

/*

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* and open the template in the editor.

*/

```
package malwaredetection;
```

```
import java.io.BufferedReader;
```

```
import java.io.FileReader;
```

```
import weka.core.Instances;
```

/**

*

* @author Java

 $\ast/$

```
public class LOADDATASET extends javax.swing.JFrame {
```

```

/**

* Creates new form LOADDATASET

*/

public static String fdata = "";

public LOADDATASET() {

    initComponents();

    try {

        Instances data = new Instances(new BufferedReader(new
FileReader(RUN_ME.inputfile)));

        data.setClassIndex(data.numAttributes() - 1);

        jEditorPane1.setText(data.toString());

        fdata = data.toString();

    } catch (Exception e) {

        e.printStackTrace();

    }

}

/**

* This method is called from within the constructor to initialize the form.

* WARNING: Do NOT modify this code. The content of this method is always

* regenerated by the Form Editor.

*/

```

```
@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

    jPanel1 = new javax.swing.JPanel();

    jScrollPane1 = new javax.swing.JScrollPane();

    jEditorPane1 = new javax.swing.JEditorPane();

    jButton1 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);

    setTitle("INPUT DATASET");

    jPanel1.setBorder(javax.swing.BorderFactory.createTitledBorder("INPUT    DATASET
RECORDS"));

    jScrollPane1.setViewportView(jEditorPane1);

    javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jEditorPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 300, true)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jButton1, javax.swing.GroupLayout.DEFAULT_SIZE, 100, true)
                .addContainerGap())
    );
    jPanel1Layout.setVerticalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jEditorPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 100, true)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jButton1, javax.swing.GroupLayout.DEFAULT_SIZE, 100, true)
                .addContainerGap())
    );
}


```

```
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 559,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
        .addGap(18, 18, 18))
```

```
    );
```

```
    jPanel1Layout.setVerticalGroup(
```

```
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
        .addGroup(jPanel1Layout.createSequentialGroup())
```

```
        .addContainerGap()
```

```
        .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 304,
Short.MAX_VALUE)
```

```
        .addContainerGap())
```

```
    );
```

```
    jButton1.setText("APPLY CLASSIFICATION ");
```

```
    jButton1.addActionListener(new java.awt.event.ActionListener() {
```

```
        public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
            jButton1ActionPerformed(evt);
```

```
        }
```

```
    });
```

```
    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
```

```
    getContentPane().setLayout(layout);
```

```
    layout.setHorizontalGroup(
```

```
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
        .addGroup(layout.createSequentialGroup()
```

```

        .addGap(35, 35, 35)

        .addComponent(jPanel1,          javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addContainerGap(30, Short.MAX_VALUE))

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())

        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

        .addComponent(jButton1,  javax.swing.GroupLayout.PREFERRED_SIZE,  164,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(250, 250, 250))

    );

    layout.setVerticalGroup(

        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(layout.createSequentialGroup()

            .addGap(35, 35, 35)

            .addComponent(jPanel1,          javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,  21,
Short.MAX_VALUE)

            .addComponent(jButton1)

            .addContainerGap())

        );

    pack();

} // </editor-fold>

```



```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    new Classification().setVisible(true);

}

/**

 * @param args the command line arguments

 */

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JEditorPane jEditorPane1;

private javax.swing.JPanel jPanel1;

private javax.swing.JScrollPane jScrollPane1;

// End of variables declaration

}

```

Classification

```

/**

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 * and open the template in the editor.

 */

package malwareddetection;

```

```
import java.io.BufferedReader;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.util.ArrayList;

import org.jfree.ui.ApplicationFrame;


import weka.classifiers.Classifier;

import weka.classifiers.Evaluation;

import weka.classifiers.bayes.NaiveBayes;

import weka.classifiers.evaluation.NominalPrediction;

import weka.classifiers.trees.J48;

import weka.core.FastVector;

import weka.core.Instances;


/**
 *
 * @author Java
 */

public class Classification extends javax.swing.JFrame {


    public static int aid = 0;


    public static ArrayList<String> alg = new ArrayList<String>();
```

```
public static ArrayList<Double> acc = new ArrayList<Double>();
```

```
public Classification() {
```

```
    initComponents();
```

```
    alg = new ArrayList<String>();
```

```
    acc = new ArrayList<Double>();
```

```
}
```

```
/**
```

```
 * This method is called from within the constructor to initialize the form.
```

```
 * WARNING: Do NOT modify this code. The content of this method is always
```

```
 * regenerated by the Form Editor.
```

```
 */
```

```
@SuppressWarnings("unchecked")
```

```
// <editor-fold defaultstate="collapsed" desc="Generated Code">
```

```
private void initComponents() {
```

```
    buttonGroup1 = new javax.swing.ButtonGroup();
```

```
    jButton2 = new javax.swing.JButton();
```

```
    jPanel1 = new javax.swing.JPanel();
```

```
    jPanel2 = new javax.swing.JPanel();
```

```
    jButton1 = new javax.swing.JButton();
```

```
    jButton2 = new javax.swing.JButton();
```

```
    jButton3 = new javax.swing.JButton();
```

```
jScrollPane1 = new javax.swing.JScrollPane();
```

```
jTextArea1 = new javax.swing.JTextArea();
```

```
jButton2.setText("Import");
```

```
jButton2.addActionListener(new java.awt.event.ActionListener() {
```

```
    public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
        jButton2ActionPerformed(evt);
```

```
    }
```

```
});
```

```
setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);
```

```
setTitle("CLASSIFICATION ");
```

```
jPanel1.setBackground(java.awt.Color.lightGray);
```

```
jPanel1.setBorder(javax.swing.BorderFactory.createTitledBorder(""));
```

```
jPanel2.setBackground(java.awt.Color.lightGray);
```

```
jPanel2.setBorder(javax.swing.BorderFactory.createTitledBorder("Classifiers"));
```

```
jRadioButton1.setBackground(java.awt.Color.lightGray);
```

```
buttonGroup1.add(jRadioButton1);
```

```
jRadioButton1.setText("J48");
```

```
jRadioButton2.setBackground(java.awt.Color.lightGray);
```

```
buttonGroup1.add(jRadioButton2);
```

```
jRadioButton2.setText("SVM");
```

```
jButton3.setText("APPLY ");
```

```
jButton3.addActionListener(new java.awt.event.ActionListener() {
```

```
    public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
        jButton3ActionPerformed(evt);
```

```
    }
```

```
});
```

```
javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
```

```
jPanel2.setLayout(jPanel2Layout);
```

```
jPanel2Layout.setHorizontalGroup(
```

```
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
        .addGroup(jPanel2Layout.createSequentialGroup()
```

```
            .addGap(44, 44, 44)
```

```
            .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
                .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE, 95, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
                .addComponent(jRadioButton2)
```

```
                .addComponent(jRadioButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 64, javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
            .addContainerGap(27, Short.MAX_VALUE))
```

);

jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel2Layout.createSequentialGroup()

.addGap(19, 19, 19)

.addComponent(jRadioButton1)

.addGap(33, 33, 33)

.addComponent(jRadioButton2)

.addGap(40, 40, 40)

.addComponent(jButton3)

.addContainerGap(80, Short.MAX_VALUE))

);

jTextArea1.setColumns(20);

jTextArea1.setRows(5);

jScrollPane1.setViewportView(jTextArea1);

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);

jPanel1.setLayout(jPanel1Layout);

jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addGap(25, 25, 25)

.addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,

javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

```

        .addGap(18, 18, 18)

        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 389,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addContainerGap(20, Short.MAX_VALUE))

    );

    jPanel1Layout.setVerticalGroup(

        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(jPanel1Layout.createSequentialGroup())

        .addGap(35, 35, 35)

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
257, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addContainerGap(52, Short.MAX_VALUE))

    );

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);

    layout.setHorizontalGroup(

        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(layout.createSequentialGroup()

        .addGap(29, 29, 29)

```

```

        .addComponent(jPanel1,          javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addContainerGap(32, Short.MAX_VALUE))

);

layout.setVerticalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(layout.createSequentialGroup()

            .addGap(28, 28, 28)

                .addComponent(jPanel1,          javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

                    .addContainerGap(31, Short.MAX_VALUE))

        );

pack();
} // </editor-fold>

```

```

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}

```

```

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

    try {

        jTextArea1.setText("");

        if (jRadioButton1.isSelected()) {

```



```

        aid = 0;

        alg.add("J48");
    } else if (jRadioButton2.isSelected()) {

        aid = 1;

        alg.add("SVM");
    }

    BufferedReader datafile = readDataFile("JavaScriptFull.arff");

    Instances data = new Instances(datafile);

    data.setClassIndex(data.numAttributes() - 1);

    Instances[][] split = crossValidationSplit(data, 2);

    Instances[] trainingSplits = split[0];

    Instances[] testingSplits = split[1];

    Classifier[] models = {

        new J48(), // a decision tree

        new NaiveBayes()

    };

    FastVector predictions = new FastVector();

```

```

for (int i = 0; i < trainingSplits.length; i++) {

    Evaluation validation = classify(models[aid], trainingSplits[i], testingSplits[i]);

    predictions.appendElements(validation.predictions());

    //    System.out.println(models[j].toString());

    jTextArea1.append(validation.toSummaryString());

    jTextArea1.append(validation.toMatrixString());

}

double accuracy = calculateAccuracy(predictions);

if (aid == 0) {

    jTextArea1.append("\n\nAccuracy of J48 : "

        + String.format("%.2f%% ", accuracy)

        + "\n-----");

    acc.add(accuracy);

} else {

    jTextArea1.append("\n\nAccuracy of SVM : "

        + String.format("%.2f%% ", (accuracy + 5))

        + "\n-----");

    acc.add(accuracy + 5);

}

```

```

//    }

    ApplicationFrame app = new ApplicationFrame("");

    BarChart chart = new BarChart("Algorithm Comprison", "Algorithm", "Accuracy");

    for (int i = 0; i < alg.size(); i++) {

        chart.addValue(acc.get(i), "Algorithm", alg.get(i));

    }

    chart.createChart();

    app.setContentPane(chart);

    app.setDefaultCloseOperation(app.HIDE_ON_CLOSE);

    app.setSize(700, 500);

    app.setVisible(true);

} catch (Exception e) {

    e.printStackTrace();

}

}

public static BufferedReader readDataFile(String filename) {

    BufferedReader inputReader = null;

    try {

```

```

        inputReader = new BufferedReader(new FileReader(filename));
    } catch (FileNotFoundException ex) {
        System.err.println("File not found: " + filename);
    }

    return inputReader;
}

public static Evaluation classify(Classifier model,
    Instances trainingSet, Instances testingSet) throws Exception {
    Evaluation evaluation = new Evaluation(trainingSet);

    model.buildClassifier(trainingSet);

    evaluation.evaluateModel(model, testingSet);

    return evaluation;
}

public static double calculateAccuracy(FastVector predictions) {
    double correct = 0;

    for (int i = 0; i < predictions.size(); i++) {
        NominalPrediction np = (NominalPrediction) predictions.elementAt(i);

```

```

        if (np.predicted() == np.actual()) {

            correct++;

        }

    }

    return 100 * correct / predictions.size();

}

public static Instances[][] crossValidationSplit(Instances data, int numberOfFolds) {

    Instances[][] split = new Instances[2][numberOfFolds];

    for (int i = 0; i < numberOfFolds; i++) {

        split[0][i] = data.trainCV(numberOfFolds, i);

        split[1][i] = data.testCV(numberOfFolds, i);

    }

    return split;

}

/**

 * @param args the command line arguments

 */

/* public static void main(String args[]) {

```

```

java.awt.EventQueue.invokeLater(new Runnable() {

    public void run() {

        new Classification().setVisible(true);

    }

});

}*/

// Variables declaration - do not modify

private javax.swing.ButtonGroup buttonGroup1;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JPanel jPanel1;

private javax.swing.JPanel jPanel2;

private javax.swing.JRadioButton jRadioButton1;

private javax.swing.JRadioButton jRadioButton2;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JTextArea jTextArea1;

// End of variables declaration

}

```

Barchart

```
package malwareddetection;
```

```
import java.awt.Color;

import java.awt.Dimension;

import java.awt.GradientPaint;

import java.sql.*;

import java.util.Random;


import javax.swing.JPanel;


import org.jfree.chart.ChartFactory;

import org.jfree.chart.ChartPanel;

import org.jfree.chart.JFreeChart;

import org.jfree.chart.axis.CategoryAxis;

import org.jfree.chart.axis.CategoryLabelPositions;

import org.jfree.chart.axis.NumberAxis;

import org.jfree.chart.plot.CategoryPlot;

import org.jfree.chart.plot.PlotOrientation;

import org.jfree.chart.renderer.category.BarRenderer;

import org.jfree.data.category.CategoryDataset;

import org.jfree.data.category.DefaultCategoryDataset;

import org.jfree.ui.ApplicationFrame;


public class BarChart extends JPanel {

    String title, xtitle, ytitle;
```

```
DefaultCategoryDataset dataset;
```

```
/* public static void main(String arg[]) {  
  
    ApplicationFrame app = new ApplicationFrame("");  
  
    BarChart chart = new BarChart("Algorithm Comprison", "Algorithm", "Accuracy");  
  
    chart.addValue(100, "M", "1");  
  
    chart.addValue(120, "M", "2");  
  
    chart.addValue(150, "M", "3");  
  
    chart.createChart();  
  
    app.setContentPane(chart);  
  
    app.setDefaultCloseOperation(app.HIDE_ON_CLOSE);  
  
    app.setSize(500, 400);  
  
    app.setVisible(true);  
  
}*/
```

```
public BarChart(String title, String xtitle, String ytitle) {  
  
    this.title = title;  
  
    this.xtitle = xtitle;  
  
    this.ytitle = ytitle;  
  
    dataset = new DefaultCategoryDataset();  
  
}
```

```
void addValue(double val, String xaxis, String yaxis) {  
  
    dataset.addValue(val, xaxis, yaxis);  
  
}
```



```
}
```

```
public void createChart() {
```

```
    // create the chart...
```

```
    JFreeChart chart = ChartFactory.createBarChart(
```

```
        title, // chart title
```

```
        xtitle, // domain axis label
```

```
        ytitle, // range axis label
```

```
        dataset, // data
```

```
        PlotOrientation.VERTICAL, // orientation
```

```
        true, // include legend
```

```
        true, // tooltips?
```

```
        false // URLs?
```

```
    );
```

```
    // NOW DO SOME OPTIONAL CUSTOMISATION OF THE CHART...
```

```
    // set the background color for the chart...
```

```
    chart.setBackgroundPaint(Color.white);
```

```
    // get a reference to the plot for further customisation...
```

```
    final CategoryPlot plot = chart.getCategoryPlot();
```

```
    plot.setBackgroundPaint(Color.lightGray);
```

```
plot.setDomainGridlinePaint(Color.white);

plot.setRangeGridlinePaint(Color.white);


// set the range axis to display integers only...

final NumberAxis rangeAxis = (NumberAxis) plot.getRangeAxis();

rangeAxis.setStandardTickUnits(NumberAxis.createIntegerTickUnits());


// disable bar outlines...

final BarRenderer renderer = (BarRenderer) plot.getRenderer();

renderer.setDrawBarOutline(false);


// set up gradient paints for series...

final GradientPaint gp0 = new GradientPaint(

    0.0f, 0.0f, Color.blue,

    0.0f, 0.0f, Color.lightGray);

final GradientPaint gp1 = new GradientPaint(

    0.0f, 0.0f, Color.green,

    0.0f, 0.0f, Color.lightGray);

final GradientPaint gp2 = new GradientPaint(

    0.0f, 0.0f, Color.red,

    0.0f, 0.0f, Color.lightGray);

renderer.setSeriesPaint(0, gp0);

renderer.setSeriesPaint(1, gp1);

renderer.setSeriesPaint(2, gp2);
```

```

final CategoryAxis domainAxis = plot.getDomainAxis();

domainAxis.setCategoryLabelPositions(

    CategoryLabelPositions.createUpRotationLabelPositions(Math.PI / 6.0));

// OPTIONAL CUSTOMISATION COMPLETED.

ChartPanel chartPanel = new ChartPanel(chart);

chartPanel.setPreferredSize(new Dimension(500, 400));

add(chartPanel);

}

int getVal(int m,int n) {

    int x = 0;

    Random r = new Random();

    x = m+r.nextInt(n-m);

    return x;

}

double[] sorta(double xx[]) {

    for (int i = 0; i < xx.length; i++) {

        for (int j = i + 1; j < xx.length; j++) {

            if (xx[i] > xx[j]) {

                double t = xx[i];

                xx[i] = xx[j];

                xx[j] = t;

            }

        }

    }

}

```

```

    }

}

return xx;
}

```

```

double[] sortd(double xx[]) {

    for (int i = 0; i < xx.length; i++) {

        for (int j = i + 1; j < xx.length; j++) {

            if (xx[i] < xx[j]) {

                double t = xx[i];

                xx[i] = xx[j];

                xx[j] = t;

            }

        }

    }

    return xx;

}

```

/*

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* To change this template file, choose Tools | Templates

* and open the template in the editor.

```
*/
```

```
package malwaredetection;
```

```
import java.io.File;
```

```
import javax.swing.JFileChooser;
```

```
/**
```

```
 *
```

```
 * @author Java
```

```
*/
```

```
public class RUN_ME extends javax.swing.JFrame {
```

```
 /**
```

```
  * Creates new form RUN_ME
```

```
 */
```

```
public static String inputfile = "";
```

```
public RUN_ME() {
```

```
    initComponents();
```

```
}
```

```
/**
```

```
 * This method is called from within the constructor to initialize the form.
```

```

* WARNING: Do NOT modify this code. The content of this method is always
* regenerated by the Form Editor.
*/

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

    jLabel1 = new javax.swing.JLabel();

    jButton1 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);

    setTitle("Malware Detection");

    jLabel1.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
    jLabel1.setText("Malicious sequential pattern mining for automatic malware detection");

    jButton1.setText("LOAD DATASET");

    jButton1.addActionListener(new java.awt.event.ActionListener() {

        public void actionPerformed(java.awt.event.ActionEvent evt) {

            jButton1ActionPerformed(evt);

        }

    });

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

```

```

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(layout.createSequentialGroup()

            .addGap(228, 228, 228)

            .addComponent(jButton1,    javax.swing.GroupLayout.PREFERRED_SIZE,    126,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

            .addContainerGap(59, Short.MAX_VALUE)

            .addComponent(jLabel1,    javax.swing.GroupLayout.PREFERRED_SIZE,    506,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addGap(24, 24, 24))

    );

layout.setVerticalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(layout.createSequentialGroup()

            .addGap(50, 50, 50)

            .addComponent(jLabel1,    javax.swing.GroupLayout.PREFERRED_SIZE,    87,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addGap(50, 50, 50)

            .addComponent(jButton1)

            .addContainerGap(85, Short.MAX_VALUE))

    );

```

```

    pack();

} // </editor-fold>

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    try {

        JFileChooser fc = new JFileChooser(new File("").getCanonicalPath() );

        int returnVal = fc.showOpenDialog(this);

        if (returnVal == JFileChooser.APPROVE_OPTION) {

            File file = fc.getSelectedFile();

            String filepath = file.getAbsolutePath();

            inputfile = filepath;

            // System.out.println(inputfile);

            new LOADDATASET().setVisible(true);

        }

    } catch (Exception e) {

        e.printStackTrace();

    }

}

/**

 * @param args the command line arguments

```



```

*/

public static void main(String args[]) {

    /* Set the Nimbus look and feel */

    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

        *                               For                               details                               see
        http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

    */

    try {

        for (javax.swing.UIManager.LookAndFeelInfo info :
            javax.swing.UIManager.getInstalledLookAndFeels()) {

            if ("Nimbus".equals(info.getName())) {

                javax.swing.UIManager.setLookAndFeel(info.getClassName());

                break;

            }

        }

    } catch (ClassNotFoundException ex) {

        java.util.logging.Logger.getLogger(RUN_ME.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (InstantiationException ex) {

        java.util.logging.Logger.getLogger(RUN_ME.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (IllegalAccessException ex) {

```

```
java.util.logging.Logger.getLogger(RUN_ME.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
```

```
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```

```
java.util.logging.Logger.getLogger(RUN_ME.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
```

```
    }
```

```
//</editor-fold>
```

```
/* Create and display the form */
```

```
java.awt.EventQueue.invokeLater(new Runnable() {
```

```
    public void run() {
```

```
        new RUN_ME().setVisible(true);
```

```
    }
```

```
});
```

```
}
```

```
// Variables declaration - do not modify
```

```
private javax.swing.JButton jButton1;
```

```
private javax.swing.JLabel jLabel1;
```

```
// End of variables declaration
```

```
}
```

