**CME 4432 APPLICATIONS OF DECISION SUPPORT SYSTEMS ASSIGNMENT I**

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Implement a desktop application by using WEKA library (C# application for WEKA.dll or Java for WEKA.jar) to obtain the suitable dataset content for each classification algorithm.

* For Naïve Bayes algorithm, the dataset must have only nominal data,
* For Logistic Regression algorithm, the dataset must have only numeric data,
* For K-Nearest Neighbour algorithm (named as IBk in WEKA), the dataset must be numeric.
* For Decision Tree algorithms (named as J48, Random Forest and Random Trees in WEKA), the data type is not important. (Don’t change anything in the dataset)
* For Artificial Neural Network algorithm (named as Multilayer Perceptron in WEKA), the dataset must be numeric
* For Support Vector Machine algorithm (named as SVM in WEKA), the dataset must be numeric

Implement the application for these algorithms.

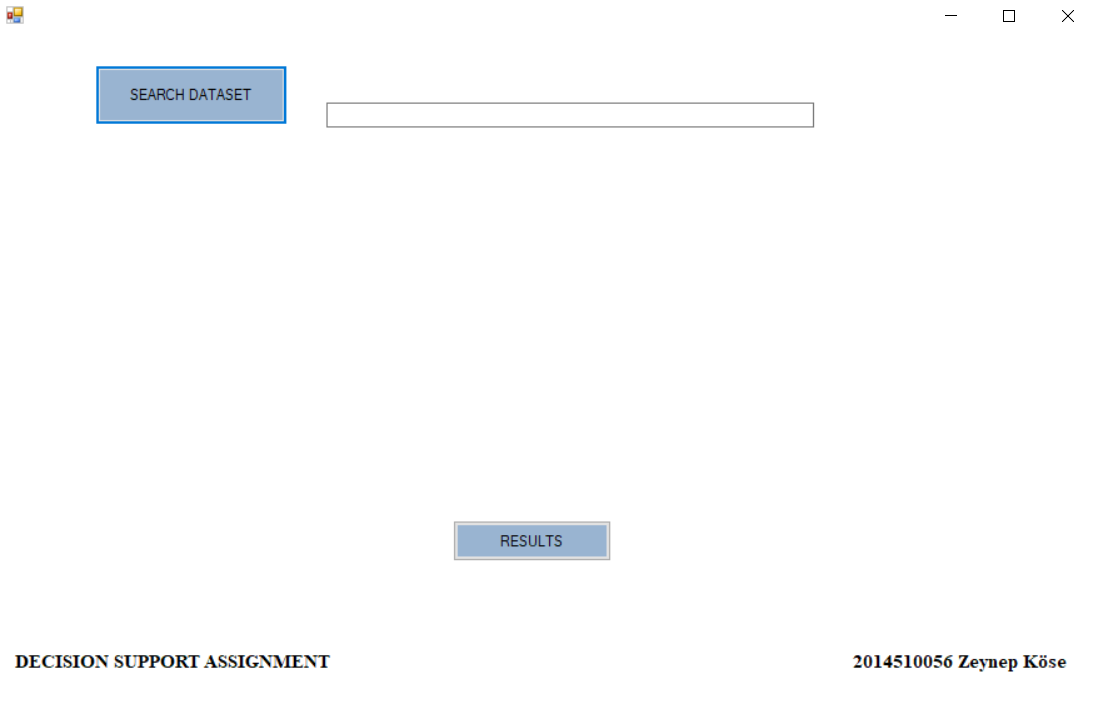


Figure 1. Application UI

1. **DATASET CAR TEST**

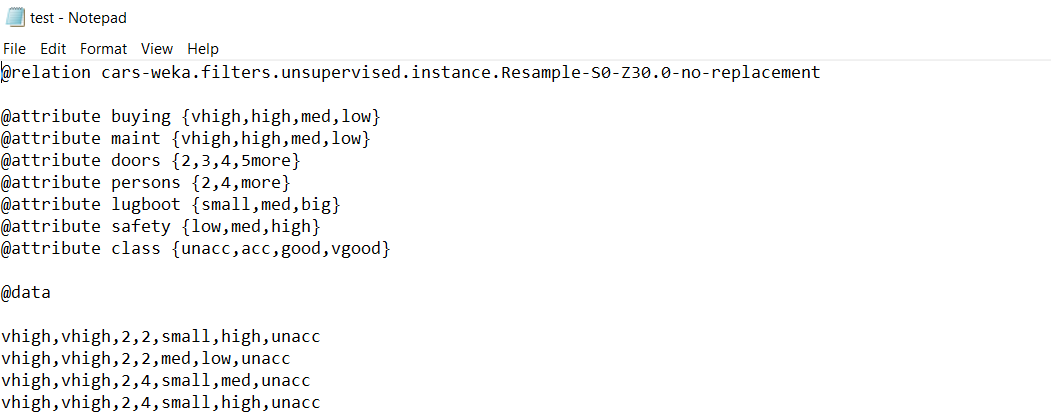


Figure 2. Dataset car test

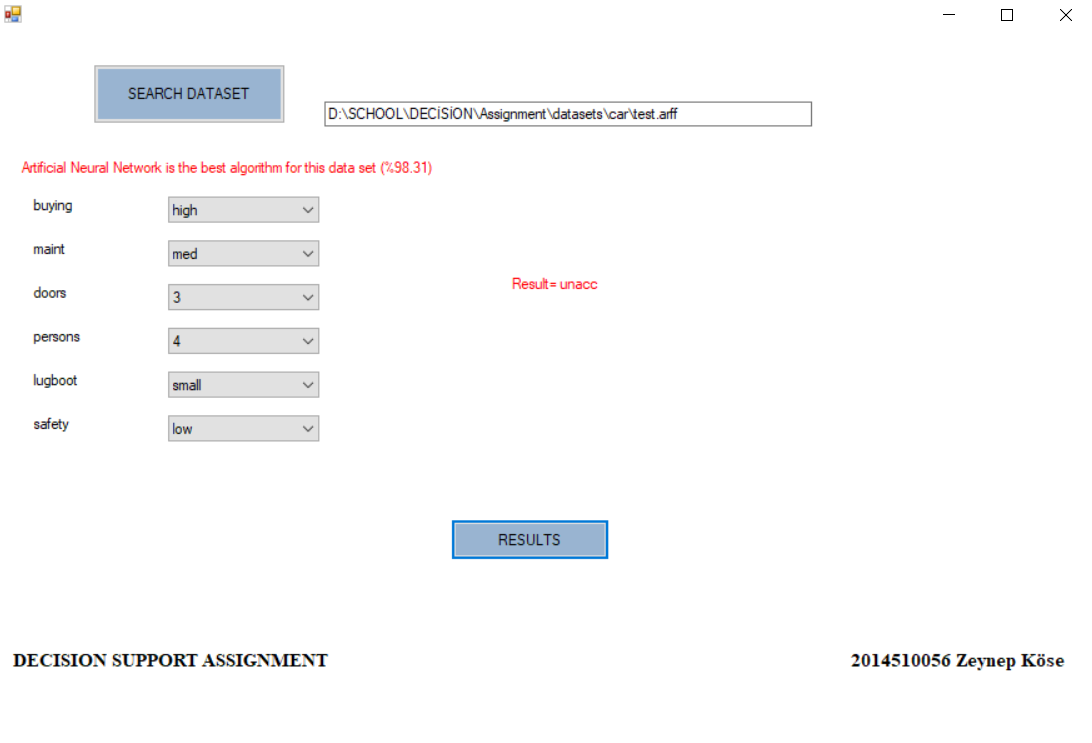


Figure 3. Result of Dataset car test

1. **DATASET IRIS**

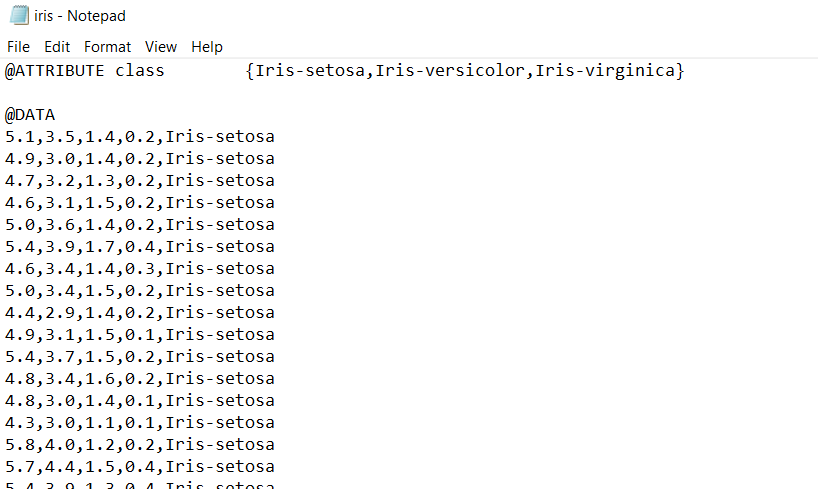


Figure 4. Dataset iris

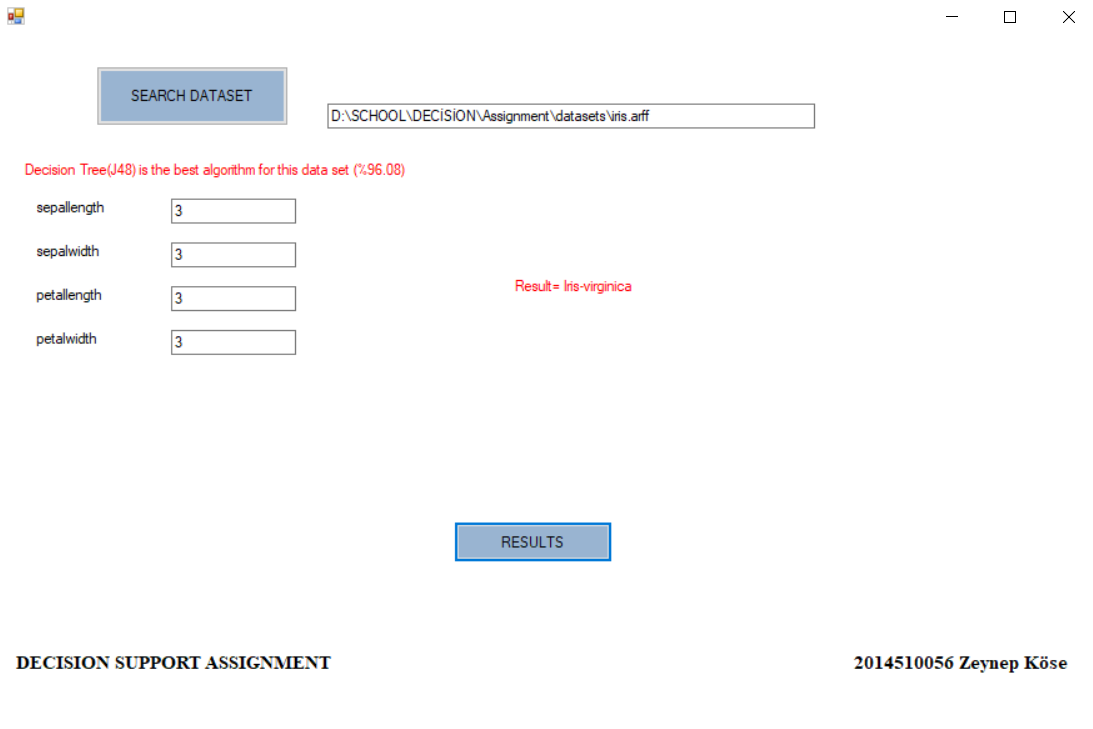


Figure 5. Result of Dataset car test

1. **DATASET WEATHER.NOMINAL**

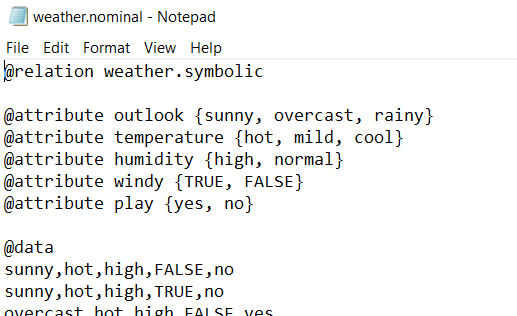


Figure 6. Dataset weather.nominal

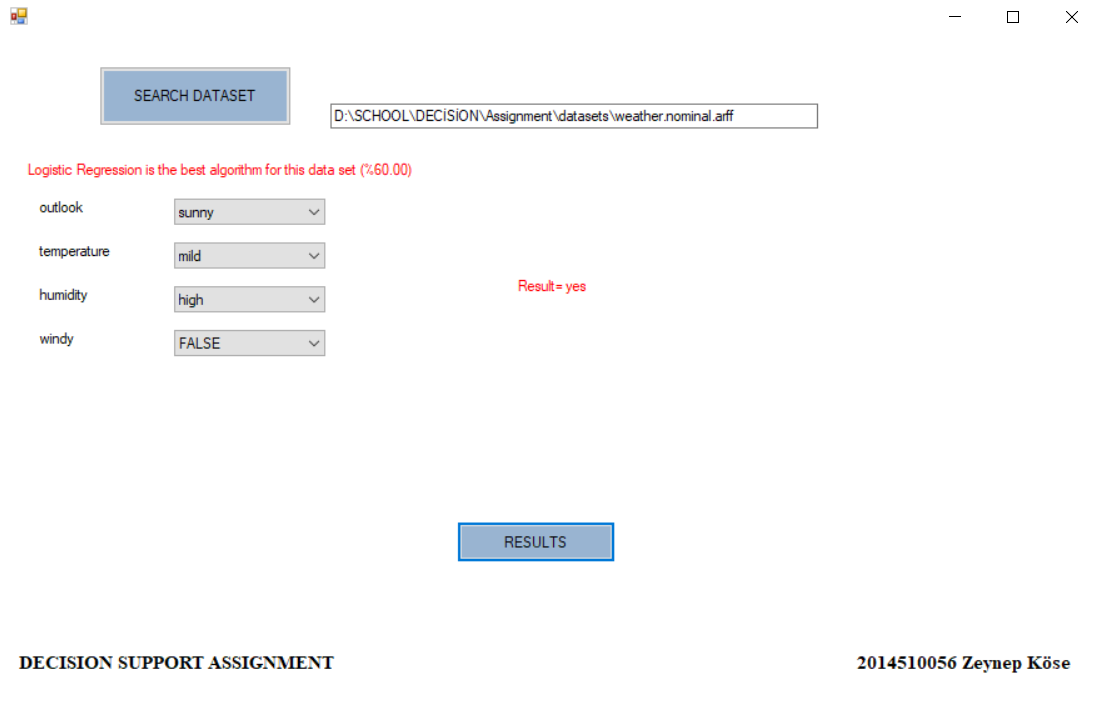


Figure 7. Result of Dataset weather.nominal