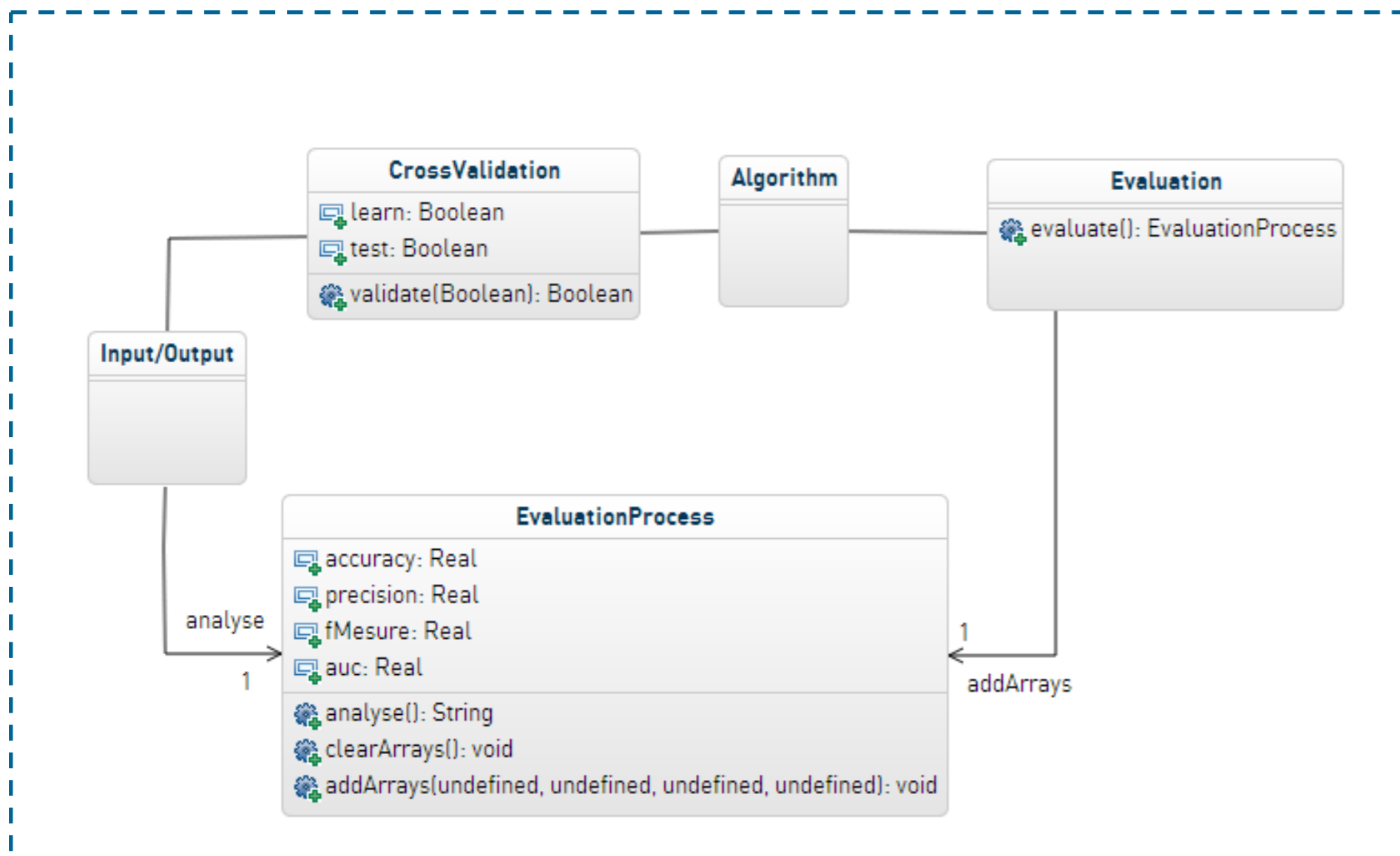


## Developed Component

### Class diagram



#### • EvaluationProcess Class

- Receives information to be analyzed from the CrossValidation class over the addArrays method
- On analyze method returns a string containing the results of the statistical analysis to the GUI to be shown

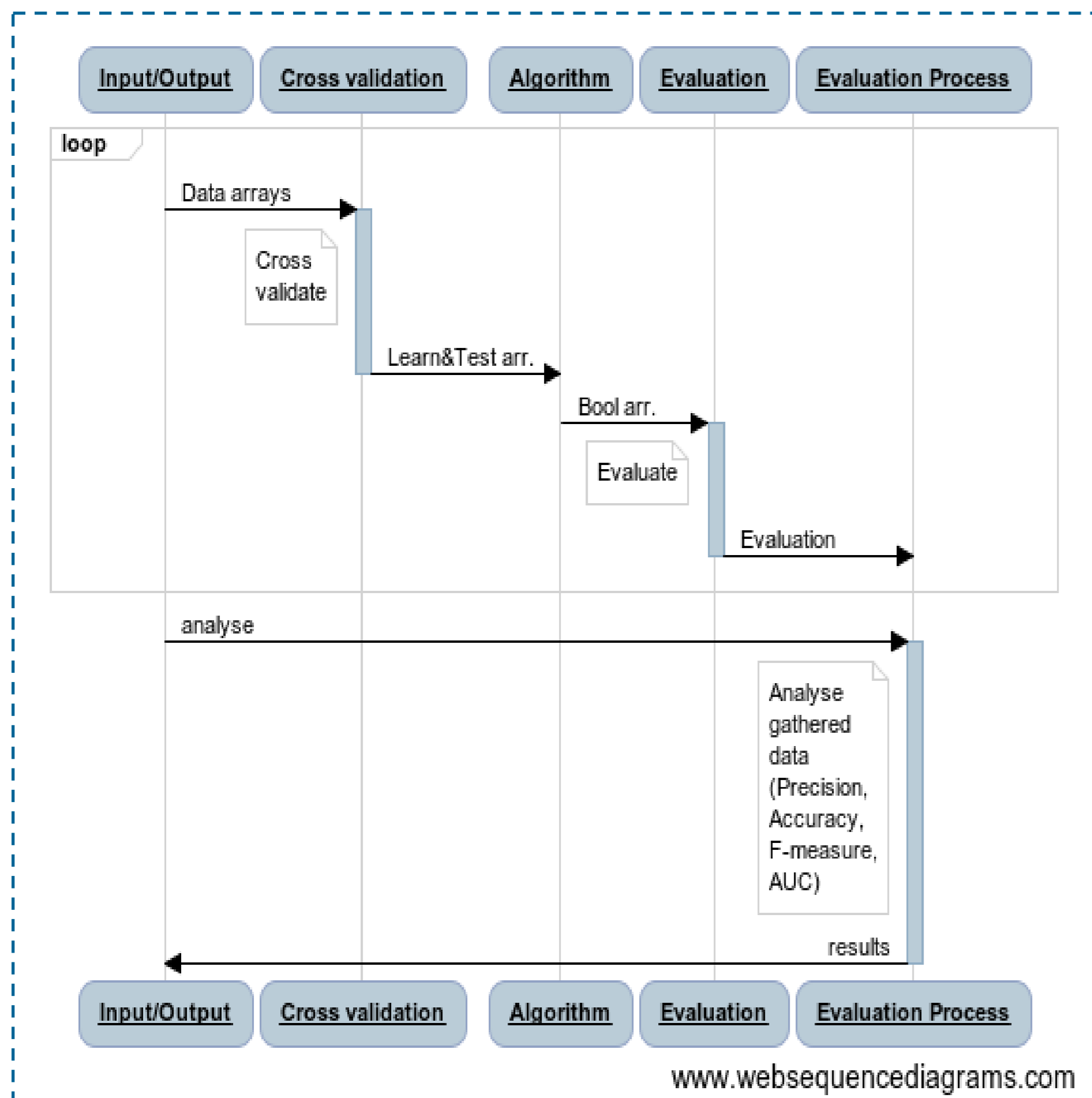
#### • CrossValidation Class

- From input array creates two arrays – one for learning and one for testing

#### • Evaluation Class

- Calculates accuracy, precision, F-measure, AUC

### Sequence diagram



## Summary

#### • System Description

- Creation of test and learning arrays.
- Computation of accuracy, precision, F-measure and AUC parameters.
- Statistical analysis of differences between groups of data. The analyzed data is composed of calculated attributes. The difference between groups if different features are selected.

#### • Project Motivation

- To determine if data mining algorithms provide optimum solution.
- A method to find out if selecting different features results in significantly different calculated attributes.

## GUI

### GUI for Developed Component

- Feature selection
- Result display

## Conclusion

#### • Experienced problems

- Integration
- Interpretation of specifications
- Interpretation of data implementation

#### • Learned Concepts

- Statistical analysis methods and uses
- Statistical analysis in Python