

ADAMS

Advanced **D**ata mining **A**nd **M**achine learning **S**ystem

Module: adams-ml

ML

Peter Reutemann

January 7, 2021

©2016-2018



THE UNIVERSITY OF
WAIKATO
Te Whare Wānanga o Waikato



Except where otherwise noted, this work is licensed under
<http://creativecommons.org/licenses/by-sa/4.0/>

Contents

1	Flow	5
	Bibliography	7

Chapter 1

Flow

The following control actors are available:

- *RemoveOutliers* – allows the user to interactively remove outliers.

The following transformers are available:

- *ClassSelector* – sets the column(s) in the data to act as class attribute.
- *ConfusionMatrix* – generates a confusion matrix in spreadsheet format from a spreadsheet containing actual and predicted labels.
- *DatasetFilter* – applies a filter to the incoming dataset (= batch filter).
- *DatasetRowFilter* – applies a filter to the incoming dataset row (= stream filter).
- *GenerateFileBasedDataset* – uses the specified generator to turn *FileBasedDatasetContainer* objects into actual datasets.
- *PredictionEccentricity* – computes the *eccentricity* of the predictions generated by a regressor¹.
- *PrepareFileBasedDataset* – uses the specified preparation scheme to turn file arrays into *FileBasedDatasetContainer* objects.

The following sinks are available:

- *ActualVsPredicted* – plots columns from spreadsheets vs each other.

The following spreadsheet readers are available:

- *SimpleArffSpreadSheetReader* – basic reader for ARFF files.

The following spreadsheet writers are available:

- *SimpleArffSpreadSheetWriter* – basic writer for ARFF files.

¹[https://en.wikipedia.org/wiki/Eccentricity_\(mathematics\)](https://en.wikipedia.org/wiki/Eccentricity_(mathematics))

Bibliography

- [1] *ADAMS* – Advanced Data mining and Machine learning System
<https://adams.cms.waikato.ac.nz/>