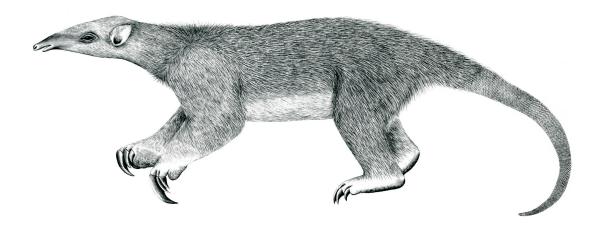
Tranalyzer2

bayesClassifier



bayesClassifier



Tranalyzer Development Team

CONTENTS

Contents

1	baye	bayesClassifier			
	1.1	Description	1		
		Dependencies			
	1.3	Configuration Flags	1		
		Flow File Output			
		Known Bugs and Limitations			

1 bayesClassifier

1.1 Description

The bayesClassifier plugin classifies flows based on different models and different source plugins.

1.2 Dependencies

1.2.1 External Libraries

This plugin depends on the jansson library.

Ubuntu:	sudo apt-get install	libjansson-dev
Arch:	sudo pacman -S	jansson
Gentoo:	sudo emerge	jansson
openSUSE:	sudo zypper install	libjansson
Red Hat/Fedora ¹ :	sudo dnf install	jansson
$macOS^2$:	brew install	jansson

1.2.2 Other Plugins

This plugin requires the nFrstPkts plugin.

1.2.3 Required Files

The file bayes_config.json is required.

1.3 Configuration Flags

The following flags can be used to control the output of the plugin:

Name	Default	Description
BAYES_CFG	"bayes_config.cfg"	Name of the Bayes config file
BAYES_UNKNOWN	"unknown"	Default class name
BAYES_MIN_POST_PROB	0.0001	Minimum post-probability
BAYES_MIN_NUM_PKT	1	Minimum amount of packets per flow

1.4 Flow File Output

The bayesClassifier plugin outputs the following columns:

 $^{^{1}\}mbox{If the dnf}$ command could not be found, try with \mbox{yum} instead

²Brew is a packet manager for macOS that can be found here: https://brew.sh

Column	Type	Description	Flags
bayesClass	SC	Naive Bayes Class Name	

1.5 Known Bugs and Limitations

Currently the naivebayes library only supports discrete input features.