aisquared

The AI Squared Team

DOCUMENTATION

1	Installation																3
	1.1 aisqua	ared								 	 	 					 3
	1.1.1	aisquar	ed package							 	 	 					 3
		1.1.1.1	Subpackages							 	 	 					 3
		1.1.1.2	Module conten	its .					 •	 		 					 70
2	Changelog																71
Python Module Index									75								
In	dex																77



This package contains utilities to interact with the AI Squared technology stack, particularly with developing and deploying models to the AI Squared Platform or other applications developed through the AI Squared JavaScript SDK.

Current Production Version: 0.3.11

View this Documentation in PDF Format.

DOCUMENTATION 1

2 DOCUMENTATION

CHAPTER

ONE

INSTALLATION

This package is available through Pypi and can be installed by running the following command:

pip install aisquared

Alternatively, the latest version of the software can be installed directly from GitHub using the following command:

pip install git+https://github.com/AISquaredInc/aisquared

1.1 aisquared

1.1.1 aisquared package

1.1.1.1 Subpackages

aisquared.base package

Submodules

aisquared.base.BaseObject module

class aisquared.base.BaseObject.BaseObject

Bases: object

Base class used for all other classes within the aisquared package. This class is not meant to be used by any end user of this package, but is rather used throughout this package as a parent class.

 $\textbf{to_dict()} \rightarrow dict$

Get the object as a dictionary

 $\textbf{to_json()} \rightarrow str$

Return the object as a json string

aisquared.base.css module

aisquared.base.endpoints module

NOT MEANT TO BE CALLED BY THE END USER - configuration parameters for the different endpoints in the platform

aisquared.base.harvesting module

Some allowed configuration parameters - not designed to be directly called by the user

aisquared.base.platform module

aisquared.base.preprocessing module

Some allowed configuration parameters - not designed to be directly called by the user

aisquared.base.rendering module

Some allowed configuration parameters - not meant to be directly called by the end user

aisquared.base.stages module

Some allowed configuration parameters - not designed to be directly called by the user

Module contents

The aisquared base package contains both some basic objects that are used across the aisquared package backend and some objects which are designed to facilitate simple use cases of the technology.

aisquared.config package

Subpackages

aisquared.config.analytic package

Submodules

aisquared.config.analytic.DeployedAnalytic module

```
Bases: BaseObject
```

Interaction with a remote analytic

Example usage:

```
property api_key_header_name
property api_key_prefix
property header
property input_type
property secret
to_dict() → dict
    Get the object as a dictionary
property url
```

aisquared.config.analytic.DeployedModel module

Bases: BaseObject

Interaction with a remote model

Example usage:

```
>>> import aisquared
>>> analytic = aisquared.config.analytic.DeployedModel(
    'model_url',
    'text'
)
>>> analytic.to_dict()
{'className': 'DeployedModel',
    'params': {'url': 'model_url',
    'inputType': 'text',
    (continues on next page)
```

(continued from previous page)

```
'headers': None,
'bodyKey': None,
'returnKey': None}}

property body_key

property headers

property input_type

property return_key

to_dict() → dict
    Get the config object as a dictionary

property url
```

aisquared.config.analytic.LocalAnalytic module

Bases: BaseObject

Interaction with an analytic (lookup table) saved to the local file system

Example usage:

```
>>> import aisquared
>>> analytic = aisquared.config.analytic.LocalAnalytic(
    'analytic_path',
    'text'
)
>>> analytic.to_dict()
{'className': 'LocalAnalytic',
    'params': {'path': 'analytic_path',
    'inputType': 'text',
    'all': False}}
```

```
property all
property input_type
property path
to_dict() → dict
    Get the configuration object as a dictionary
```

aisquared.config.analytic.LocalModel module

```
class aisquared.config.analytic.LocalModel.LocalModel(path: str, input_type: str)
    Bases: BaseObject
    Interaction with a model currently saved to the local file system
```

Example usage:

```
>>> import aisquared
>>> analytic = aisquared.config.analytic.LocalModel(
    'model_path',
    'text'
)
>>> analytic.to_dict()
{'className': 'LocalModel',
    'params': {'path': 'model_path',
    'inputType': 'text'}}
```

```
property input_type
```

property path

```
\textbf{to\_dict()} \rightarrow dict
```

Get the configuration object as a dictionary

aisquared.config.analytic.ReverseMLWorkflow module

class aisquared.config.analytic.ReverseMLWorkflow.ReverseMLWorkflow(label: str, connector_type:

```
str, connector\_action: str =
'read', input\_type: str =
'text', filter_type: str =
'input', file_names: list =
[], bucket: str = ",
filter by columns: list = [],
all: bool = False, arn: str
= ", host: str = ", path: str
= ", port: str = ", role: str
= ", soql: str = ", query: str
= ", token: str = ", column:
str = ", db\_name: str = ",
db\_user: str = ", period:
int \mid None = None, schema:
str = ", secret: str = ",
account: str = ", data_map:
list = [], db\_table: str = ",
client_id: str = ",
file name: str = "
password: str = ",
schedule: str = ",
sync\_keys: dict =
{'destination': ", 'source':
"}, warehouse: str = ",
data source: str = ",
cluster\_name: str = ",
client\_secret: str = ",
organization: str = ",
authentication\_type: str =
")
```

Bases: BaseObject

Creation of a ReverseML Workflow to interact with remote data sources

 $\textbf{to_dict()} \rightarrow dict$

Get the configuration object as a dictionary

Module contents

The aisquared.config.analytic subpackage contains objects for packaging individual analytics.

aisquared.config.feedback package

Submodules

aisquared.config.feedback.BinaryFeedback module

```
class aisquared.config.feedback.BinaryFeedback.BinaryFeedback(label_map: list)
```

Bases: BaseObject

Feedback for binary classification

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.feedback.BinaryFeedback(['class1', 'class2'])
>>> my_obj.to_dict()
{'className': 'BinaryFeedback', 'params': {'labelMap': ['class1', 'class2']}}
```

property label_map

```
to\_dict() \rightarrow dict
```

Return the object as a dictionary

aisquared.config.feedback.ModelFeedback module

class aisquared.config.feedback.ModelFeedback.ModelFeedback

Bases: BaseObject

Feedback object for questions and answers for an individual model.

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.feedback.ModelFeedback()
>>> my_obj.add_question(
    'How is the model performing?',
    choices = ['very poorly', 'poorly', 'neutral', 'well', 'very well']
)
>>> my_obj.add_question(
    'Any additional feedback?',
    'text'
)
>>> my_obj.to_dict()
{'className': 'ModelFeedback',
    'params': {'questions': [{'question': 'How is the model performing?',
    'answerType': 'singleChoice',
    'choices': ['very poorly', 'poorly', 'neutral', 'well', 'very well']},
{'question': 'Any additional feedback?', 'answerType': 'text'}]}}
```

add_question(*question: str*, *answer_type: str* = '*singleChoice*', *choices: list* = []) Add a question to be asked.

Parameters

- **question** (str) The question to be asked.
- answer_type (str (default 'singleChoice')) One of either 'singleChoice', 'multiChoice', or 'text'
- **choices** (list (default [])) The choices to be provided, if answer_type is 'single-Choice' or 'multiChoice'

 $\textbf{to_dict()} \rightarrow dict$

Return the object as a dictionary

aisquared.config.feedback.MulticlassFeedback module

class aisquared.config.feedback.MulticlassFeedback.MulticlassFeedback(label_map: list)

```
Bases: BaseObject
```

Feedback for multiclass classification

Example Usage:

property label_map

```
to_dict() \rightarrow dict
```

Return the object as a dictionary

aisquared.config.feedback.QualitativeFeedback module

class aisquared.config.feedback.QualitativeFeedback.QualitativeFeedback

```
Bases: BaseObject
```

Feedback object for questions and answers for individual predictions.

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.feedback.QualitativeFeedback()
>>> my_obj.add_question('Any additional feedback?', 'text')
>>> my_obj.to_dict()
{'className': 'QualitativeFeedback',
'params': {'questions': [{'question': 'Any additional feedback?',
'answerType': 'text'}]}}
```

add_question(question: str, answer_type: str = 'singleChoice', choices: list = [])

Add a question to be asked.

Parameters

- **question** (*str*) The question to be asked.
- answer_type (str (default 'singleChoice')) One of either 'singleChoice', 'multiChoice', or 'text'
- choices (list (default [])) The choices to be provided, if answer_type is 'single-Choice' or 'multiChoice'

```
to\_dict() \rightarrow dict
```

Return the object as a dictionary

aisquared.config.feedback.RegressionFeedback module

class aisquared.config.feedback.RegressionFeedback.RegressionFeedback

```
Bases: BaseObject
Feedback for regression
```

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.feedback.RegressionFeedback()
>>> my_obj.to_dict()
{'className': 'RegressionFeedback', 'params': {}}
```

```
to\_dict() \rightarrow dict
```

Return the object as a dictionary

aisquared.config.feedback.SimpleFeedback module

class aisquared.config.feedback.SimpleFeedback.SimpleFeedback

```
Bases: BaseObject
```

Simple thumbs-up/thumbs-down feedback for predictions

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.feedback.SimpleFeedback()
>>> my_obj.to_dict()
{'className': 'SimpleFeedback', 'params': {}}
```

```
to\_dict() \rightarrow dict
```

Return the object as a dictionary

Module contents

The aisquared.config.feedback subpackage contains objects for configuring feedback in aisquared models.

aisquared.config.harvesting package

Submodules

aisquared.config.harvesting.ChatbotHarvester module

 $\textbf{class} \ \, \textbf{aisquared.config.harvesting.ChatbotHarvester.ChatbotHarvester} (\textit{max_length: int} \mid \textit{None} = None)$

Bases: BaseObject

Object to harvest for a chatbot

Example usage:

```
>>> import aisquared
     >>> my_obj = aisquared.config.harvesting.ChatbotHarvester(
         max_length = 128
     >>> my_obj.to_dict()
     {'className': 'ChatbotHarvester',
     'params': {'maxLength': '128',
     'inputType': 'text'}}
     property max_length
     to_dict()
         Get the object as a dictionary
aisquared.config.harvesting.lmageHarvester module
class aisquared.config.harvesting.ImageHarvester.ImageHarvester(how: str = 'all')
     Bases: BaseObject
     Object to harvest images
     Example usage:
     >>> import aisquared
     >>> my_obj = aisquared.config.harvesting.ImageHarvester()
     >>> my_obj.to_dict()
     {'className': 'ImageHarvester', 'params': {'how' : 'all'}}
     property how
     to_dict() \rightarrow dict
         Get the configuration object as a dictionary
aisquared.config.harvesting.lnputHarvester module
class aisquared.config.harvesting.InputHarvester.InputHarvester(input_type: str = 'text',
                                                                     max\_length: int \mid None = None,
                                                                     features: list | None = None)
     Bases: BaseObject
     Object to harvest user-input text
     Example usage:
     >>> import aisquared
     >>> my_obj = aisquared.config.harvesting.InputHarvester()
     >>> my_obj.to_dict()
     {'className': 'InputHarvester',
     'params': {'inputType': 'text', 'maxLength': None, 'features': None}}
     property features
```

property input_type

```
property max_length  \begin{tabular}{ll} \textbf{to\_dict()} \rightarrow dict \\ Get the configuration object as a dictionary \\ \end{tabular}
```

aisquared.config.harvesting.QueryParameterHarvester module

Bases: BaseObject

Harvester for Query Parameters

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.harvesting.QueryParameterHarvester(
    'test_key',
    'test_url',
    'test_attribute'
)
>>> my_obj.to_dict()
{'className': 'QueryParameterHarvester',
'params': {'queryKeys': ['test_key'],
'urlLocations': ['test_url'],
'attributes': ['test_attribute']}}
```

```
property attributes
property query_keys
```

 $to_dict() \rightarrow dict$

Get the configuration object as a dictionary

property url_locations

aisquared.config.harvesting.TextHarvester module

```
class aisquared.config.harvesting.TextHarvester.TextHarvester(how: str = 'all', regex: str \mid None = None, flags: str = 'gu', body\_only: bool = False, keywords: str \mid list \mid None = None, limit: int \mid None = None)
```

Bases: BaseObject
Object to harvest text

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.harvesting.TextHarvester(
   how = 'all',
   body_only = True
>>> my_obj to_dict()
{'className': 'TextHarvester',
'params': {'how': 'all',
'regex': None,
'flags': 'gu',
'bodyOnly': True,
'limit': None}}
property body_only
property flags
property how
property limit
property regex
```

Module contents

 $to_dict() \rightarrow dict$

The aisquared.config.harvesting subpackage contains objects for configuring harvesting of data.

aisquared.config.postprocessing package

Submodules

aisquared.config.postprocessing.BinaryClassification module

Get the configuration object as a dictionary

class aisquared.config.postprocessing.BinaryClassification.BinaryClassification(label_map: list, threshold: float = 0.5)

Bases: BaseObject

Postprocesssing configuration object for binary classification

Example usage

```
>>> import aisquared
>>> my_obj = aisquared.config.postprocessing.BinaryClassification(
    ['class1', 'class2']
)
>>> my_obj.to_dict()
{'className': 'BinaryClassification',
    'params': {'labelMap': ['class1', 'class2'], 'threshold': 0.5}}
```

aisquared.config.postprocessing.MulticlassClassification module

class aisquared.config.postprocessing.MulticlassClassification.MulticlassClassification(label_map:

Bases: BaseObject

Postprocessing configuration object for multiclass classification

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.postprocessing.MulticlassClassification(
    ['class1', 'class2', 'class3']
)
>>> my_obj.to_dict()
{'className': 'MulticlassClassification',
'params': {'labelMap': ['class1', 'class2', 'class3']}}
```

property label_map

```
to\_dict() \rightarrow dict
```

Get the configuration object as a dictionary

aisquared.config.postprocessing.ObjectDetection module

class aisquared.config.postprocessing.ObjectDetection.ObjectDetection($label_map: list, threshold: float = 0.5$)

Bases: BaseObject

Postprocessing configuration object for object detection

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.postprocessing.ObjectDetection(
    ['class1', 'class2', 'class3']
)
>>> my_obj.to_dict()
{'className': 'ObjectDetection',
    'params': {'labelMap': ['class1', 'class2', 'class3'], 'threshold': 0.5}}
```

property label_map

property threshold

 $to_dict() \rightarrow dict$

Get the configuration object as a dictionary

aisquared.config.postprocessing.Regression module

```
class aisquared.config.postprocessing.Regression.Regression(min: int \mid float \mid None = None, max: int \mid float \mid None = None, round: bool = False)
```

Bases: BaseObject

Postprocessing configuration object for Regression

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.postprocessing.Regression(
        10,
        100
)
>>> my_obj.to_dict()
{'className': 'Regression', 'params': {'min': 10, 'max': 100, 'round': False}}
```

```
property max
```

property min

property round

 $\textbf{to_dict()} \rightarrow dict$

Get the configuration object as a dictionary

Module contents

The aisquared.config.postprocessing subpackage contains objects for configuring how predictions are postprocessed.

aisquared.config.preprocessing package

Subpackages

aisquared.config.preprocessing.image package

Submodules

aisquared.config.preprocessing.image.lmagePreprocessing module

Bases: BaseObject

Preprocesser object for image data

Example usage:

```
>>> import aisquared
     >>> preprocesser = aisquared.config.preprocessing.image.ImagePreprocesser()
     >>> preprocesser.add_step(
         aisquared.config.preprocessing.image.AddValue(255.0)
     add_step(step)
          Add a step to the preprocesser object
     property step_dict
     to\_dict() \rightarrow dict
          Get the configuration object as a dictionary
aisquared.config.preprocessing.image.Steps module
class aisquared.config.preprocessing.image.Steps.AddValue(value: int | float)
     Bases: BaseObject
     Preprocessing step to add a value to all pixels in an image
     Example usage:
     >>> import aisquared
     >>> preprocesser = aisquared.config.preprocessing.image.ImagePreprocesser()
     >>> preprocesser.add_step(
         aisquared.config.preprocessing.image.AddValue(255.0)
     to\_dict() \rightarrow dict
          Get the configuration object as a dictionary
     property value
class aisquared.config.preprocessing.image.Steps.ConvertToColor(color: str)
     Bases: BaseObject
     Preprocessing step to convert images to a color scheme
     Example usage:
     >>> import aisquared
     >>> preprocesser = aisquared.config.preprocessing.image.ImagePreprocesser()
     >>> preprocesser.add_step(
         aisquared.config.preprocessing.image.ConvertToColor('RGB')
     property color
     to_dict() \rightarrow dict
          Get the configuration object as a dictionary
```

```
class aisquared.config.preprocessing.image.Steps.DivideValue(value: int | float)
     Bases: BaseObject
     Preprocessing step to divide all pixels in an image by a value
     Example usage:
     >>> import aisquared
     >>> preprocesser = aisquared.config.preprocessing.image.ImagePreprocesser()
     >>> preprocesser.add_step(
         aisquared.config.preprocessing.image.DivideValue(255.0)
     to\_dict() \rightarrow dict
          Get the configuration object as a dictionary
     property value
class aisquared.config.preprocessing.image.Steps.MultiplyValue(value: int | float)
     Bases: BaseObject
     Preprocessing step to multiply all pixels in an image by a value
     Example usage:
     >>> import aisquared
     >>> preprocesser = aisquared.config.preprocessing.image.ImagePreprocesser()
     >>> preprocesser.add_step(
         aisquared.config.preprocessing.image.MultiplyValue(2.0)
     to\_dict() \rightarrow dict
          Get the configuration object as a dictionary
     property value
class aisquared.config.preprocessing.image.Steps.Resize(size: list, method: str = 'bilinear',
                                                               preserve_aspect_ratio: bool = False)
     Bases: BaseObject
     Preprocessing step to resize an image
     >>> import aisquared
     >>> preprocesser = aisquared.config.preprocessing.image.ImagePreprocesser()
     >>> preprocesser.add_step(
         aisquared.config.preprocessing.image.Resize([100, 100])
     property method
     property preserve_aspect_ratio
     property size
     \textbf{to\_dict()} \rightarrow dict
          Get the configuration object as a dictionary
```

```
class aisquared.config.preprocessing.image.Steps.SubtractValue(value: int | float)
```

```
Bases: BaseObject
```

Preprocessing step to subtract a value from all pixels in an image

Example usage:

```
>>> import aisquared
>>> preprocesser = aisquared.config.preprocessing.image.ImagePreprocesser()
>>> preprocesser.add_step(
    aisquared.config.preprocessing.image.SubtractValue(255.0)
)
```

```
to_dict() \rightarrow dict
```

Get the configuration object as a dictionary

property value

Module contents

The aisquared.config.preprocessing.image subpackage contains objects for configuring image preprocessing.

aisquared.config.preprocessing.tabular package

Submodules

aisquared.config.preprocessing.tabular.Steps module

```
class aisquared.config.preprocessing.tabular.Steps.DropColumn(column: int)
```

Bases: BaseObject

Drop a column from tabular data

Example usage:

property column

```
\textbf{to\_dict()} \rightarrow dict
```

Get the configuration object as a dictionary

class aisquared.config.preprocessing.tabular.Steps.MinMax(mins: list, maxs: list, columns: list | None = None)

Bases: BaseObject

Min-Max Scaling preprocessing step

Min-Max Scaling takes all associated columns and maps values relative to the minimum and maximum values of the training data.

Example usage:

```
>>> import aisquared
>>> preprocesser = aisquared.config.preprocessing.tabular.TabularPreprocesser()
>>> preprocesser.add_step(
    aisquared.config.preprocessing.tabular.MinMax(
        [0, 1.1, 2],
        [0.2, 14, 18.3]
)
)
```

property columns

property maxs

property mins

 $to_dict() \rightarrow dict$

Get the configuration object as a dictionary

class aisquared.config.preprocessing.tabular.Steps.OneHot(column: int, values: list)

Bases: BaseObject

One Hot encoding preprocessing step

Example usage:

```
>>> import aisquared
>>> preprocesser = aisquared.config.preprocessing.tabular.TabularPreprocesser()
>>> preprocesser.add_step(
    aisquared.config.preprocessing.tabular.OneHot(
        6,
        ['one', 'two', 'three']
    )
)
```

property column

 $to_dict() \rightarrow dict$

Get the configuration object as a dictionary

property values

class aisquared.config.preprocessing.tabular.Steps.**ZScore**(means: list, stds: list, columns: int | list | None = None)

Bases: BaseObject

Z-Score normalization preprocessing step

Z-Score normalization takes each supplied column value, subtracts that column's provided mean, and divides by the provided standard deviation.

Example usage:

```
>>> import aisquared
>>> preprocesser = aisquared.config.preprocessing.tabular.TabularPreprocesser()
>>> preprocesser.add_step(
    aisquared.config.preprocessing.tabular.ZScore(
        [0, 1, 2],
        [0.2, 0.4, 0.6]
)
)
```

```
property columns
```

property means

property stds

 $to_dict() \rightarrow dict$

Get the configuration object as a dictionary

aisquared.config.preprocessing.tabular.TabularPreprocessing module

class aisquared.config.preprocessing.tabular.TabularPreprocessing.TabularPreprocesser(steps:

list | None

_

None)

Bases: BaseObject

Preprocesser object for tabular data

Example usage:

Example usage:

```
>>> import aisquared
>>> preprocesser = aisquared.config.preprocessing.tabular.TabularPreprocesser()
>>> preprocesser.add_step(
    aisquared.config.preprocessing.tabular.ZScore(
       [0, 1, 2],
       [0.2, 0.4, 0.6]
    )
)
```

add_step(step)

Add a step to the preprocesser object

to_dict()

Get the configuration object as a dictionary

Module contents

The aisquared.config.preprocessing.tabular subpackage contains objects for preprocessing tabular data.

aisquared.config.preprocessing.text package

Submodules

aisquared.config.preprocessing.text.Steps module

```
class aisquared.config.preprocessing.text.Steps.ConvertToCase(lowercase: bool = True)
    Bases: BaseObject
```

Text preprocessing object to convert inputs to all lowercase or all uppercase

Example usage:

```
>>> import aisquared
>>> preprocesser = aisquared.config.preprocessing.text.TextPreprocesser()
>>> preprocesser.add_step(
    aisquared.config.preprocessing.text.ConvertToCase()
)
```

property lowercase

```
to\_dict() \rightarrow dict
```

Get the configuration object as a dictionary

```
class aisquared.config.preprocessing.text.Steps.ConvertToVocabulary(vocabulary: dict,
```

start_character: int = 1,
oov_character: int = 2,
max_vocab: int | None =
None)

Bases: BaseObject

Text preprocessing object to convert tokens to integer vocabularies

Example usage:

property max_vocab

property oov_character

```
property start_character
     to\_dict() \rightarrow dict
          Get the configuration object as a dictionary
     property vocabulary
class aisquared.config.preprocessing.text.Steps.PadSequences(pad\_character: int = 0, length: int = 0)
                                                                        128, pad\_location: str = 'post',
                                                                        truncate\_location: str = 'post')
     Bases: BaseObject
     Text preprocessing object to pad sequences
     Example usage:
     >>> import aisquared
     >>> preprocesser = aisquared.config.preprocessing.text.TextPreprocesser()
     >>> preprocesser.add_step(
          aisquared.config.preprocessing.text.PadSequences()
     property length
     property pad_character
     property pad_location
     to\_dict() \rightarrow dict
          Get the configuration object as a dictionary
     property truncate_location
class aisquared.config.preprocessing.text.Steps.RemoveCharacters(remove_digits: bool = True,
                                                                             remove_punctuation: bool =
                                                                             True)
     Bases: BaseObject
     Preprocessing step to remove characters from text
     Example usage:
     >>> import aisquared
     >>> preprocesser = aisquared.config.preprocessing.text.TextPreprocesser()
     >>> preprocesser.add_step(
          aisquared.config.preprocessing.text.RemoveCharacters()
     property remove_digits
     property remove_punctuation
     to\_dict() \rightarrow dict
          Get the configuration object as a dictionary
class aisquared.config.preprocessing.text.Steps.Tokenize(split sentences: bool = False,
                                                                   split_words: bool = True, token_pattern:
                                                                   str = \langle x08 \rangle \langle w \rangle + \langle x08' \rangle
```

```
Bases: BaseObject
     Preprocessing Step to tokenize text
     Example usage:
     >>> import aisquared
     >>> preprocesser = aisquared.config.preprocessing.text.TextPreprocesser()
     >>> preprocesser.add_step(
         aisquared.config.preprocessing.text.Tokenize()
     property split_sentences
     property split_words
     to\_dict() \rightarrow dict
         Get the configuration object as a dictionary
     property token_pattern
class aisquared.config.preprocessing.text.Steps.Trim
     Bases: BaseObject
     Text preprocessing class to trim whitespace from text
     Example usage:
     >>> import aisquared
     >>> preprocesser = aisquared.config.preprocessing.text.TextPreprocesser()
     >>> preprocesser.add_step(
         aisquared.config.preprocessing.text.Trim()
     to\_dict() \rightarrow dict
         Get the configuration object as a dictionary
aisquared.config.preprocessing.text.TextPreprocessing module
class aisquared.config.preprocessing.text.TextPreprocessing.TextPreprocesser(steps: list |
                                                                                     None = None
     Bases: BaseObject
     Preprocesser object for natural language
     Example usage:
     >>> import aisquared
     >>> preprocesser = aisquared.config.preprocessing.text.TextPreprocesser()
     >>> preprocesser.add_step(
         aisquared.config.preprocessing.text.Tokenize()
     add_step(step)
```

Add a step to the preprocesser object

24

property step_dict

```
to\_dict() \rightarrow dict
```

Get the configuration object as a dictionary

Module contents

The aisquared.config.preprocessing.text subpackage contains objects for preprocessing text data.

Module contents

The aisquared.config.preprocessing subpackage contains utilities to configure the preprocessing of data in the data pipeline. It contains

three separate subpackages, aisquared.config.preprocessing.text, aisquared.config.preprocessing.image, and aisquared.config.preprocessing.tabular, which configure the preprocessing of different types of data.

aisquared.config.rendering package

Submodules

aisquared.config.rendering.BarChartRendering module

```
class aisquared.config.rendering.BarChartRendering.BarChartRendering(label: str, id: str,
```

chart name: str, container_id: str, prediction_name_key: str, prediction_value_key: str, prediction_name_value: str, display_legend: bool, legend_icon: str, labels_key: str | None = *None*, *width:* str = 'auto', height: str = 'auto',xOffset: str = '0', yOffset:str = '0', labels: list | None= None.consolidate_rows: bool = *True*, css_params: dict | None = None)

Bases: BaseObject

Rendering class for rendering a Bar Chart

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.rendering.BarChartRendering(
   'my_label',
   'my_id',
   'my_bar_chart',
   'my_container_id',
(continues on next page)
```

(continued from previous page)

```
'name'.
    'value',
    'name_value',
    True,
    'circle'
>>> my_obj.to_dict()
{'className': 'BarChartRendering',
    'label': 'my_label',
    'params': {'id': 'my_id',
    'chartName': 'my_bar_chart',
    'containerId': 'my_container_id',
    'displayLegend': True,
    'legendIcon': 'circle',
    'width': 'auto',
    'height': 'auto',
    'x0ffset': '0',
    'yOffset': '0',
    'datasource': [{'labels': None,
        'labelsKey': None,
        'consolidateRows': True,
        'predictionNameKey': 'name',
        'predictionValueKey': 'value',
        'predictionNameValue': 'name_value'}]}}
```

 $to_dict() \rightarrow dict$

Get the configuration object as a dictionary

aisquared.config.rendering.ContainerRendering module

class aisquared.config.rendering.ContainerRendering.ContainerRendering(label: str, id: str,

query_selector: str,
position: str =
'absolute',
static_position: str |
None = None, width:
str = 'auto', height: str
= 'auto', display: str =
'flex', xOffset: str = '0',
yOffset: str = '0',
orientation: str =
'column', css_params:
dict | None = None)

Bases: BaseObject

Rendering for a container

Example usage:

(continued from previous page)

```
'myContainerID',
         "[data-id='tabpanel-general']"
     >>> my_obj.to_dict()
     {'className': 'ContainerRendering',
     'label': 'my container',
     'params': {'id': 'myContainerID',
     'width': 'auto',
     'height': 'auto',
     'display': 'flex',
     'xOffset': '0',
     'yOffset': '0',
     'position': 'absolute',
     'orientation': 'column',
     'querySelector': "[data-id='tabpanel-general']",
     'staticPosition': None}}
     property display
     property height
     property id
     property label
     property orientation
     property position
     property query_selector
     property static_position
     to_dict() \rightarrow dict
         Get the configuration object as a dictionary
     property width
     property xOffset
     property yOffset
aisquared.config.rendering.CustomRendering module
class aisquared.config.rendering.CustomRendering.CustomRendering(id: str, content_html: str,
                                                                      content_script: str,
                                                                      content_style: str,
                                                                      query_selector: str | None =
                                                                      None)
     Bases: BaseObject
     property content_html
     property content_script
```

```
property content_style
property id
property query_selector
to_dict()
    Get the object as a dictionary
```

aisquared.config.rendering.DashboardRendering module

THIS MODULE IS IN DEVELOPMENT AND NOT STABLE. PLEASE USE WITH CAUTION AND DO NOT USE FOR ANY PRODUCTION WORKLOADS

class aisquared.config.rendering.DashboardRendering.DashboardRendering

Bases: BaseObject

THIS CLASS IS IN DEVELOPMENT AND IS NOT STABLE. PLEASE USE WITH CAUTION AND DO NOT USE FOR ANY PRODUCTION WORKLOADS

```
add_container(query_selector: str, width: str = 'auto', height: str = 'auto', display: str = 'flex', xOffset: str = '0', yOffset: str = '0', position: str = '', orientation: str = 'column', id: str \mid None = None, label: str \mid None = None)
```

```
property steps
```

to_dict()

Get the object as a dictionary

aisquared.config.rendering.DashboardReplacementRendering module

 $\textbf{class} \ \ a is quared. config. rendering. Dashboard Replacement Rendering. Dashboard Rendering. Dashboard$

str,
where_replace
str
=
",
label:
str
=
")

Bases: BaseObject

Rendering for dashboard replacement

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.rendering.DashboardReplacementRendering(
    'test_anchor_selector'
)
>>> my_obj.to_dict()
{'className': 'DashboardReplacementRendering',
    'label': '',
    'params': {'anchorSelector': 'test_anchor_selector', 'whereReplace': ''}}
```

```
property anchor_selector
```

```
property label
```

 $to_dict() \rightarrow dict$

Get the configuration object as a dictionary

property where_replace

aisquared.config.rendering.DocumentRendering module

'className', words: list |
dict | str | None = None,
documents: list | dict | str |
None = None,
include_probability: bool
= False, probability', bey:
str = 'probability',
underline_color: str =
'blue', classes: list | None
= None, threshold_key: str | None = None,
threshold_value: int | float
| None = None)

Bases: BaseObject

Object which dictates how to render predictions on entire documents

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.rendering.DocumentRendering()
>>> my_obj.to_dict()
{'className': 'DocumentRendering',
'params': {'predictionKey': 'className',
'words': None,
'documents': None,
'includeProbability': False,
'probabilityKey': 'probability',
'underlineColor': 'blue',
'classes': None,
'thresholdKey': None,
'thresholdValue': None}}
```

```
property classes
property documents
property include_probability
property prediction_key
property probability_key
property threshold_key
property threshold_value
to_dict() → dict
    Get the configuration object as a dictionary
property underline_color
property words
```

aisquared.config.rendering.DoughnutChartRendering module

class aisquared.config.rendering.DoughnutChartRendering.DoughnutChartRendering(label: str, id:

```
str,
chart_name:
str,
container_id:
str, predic-
tion_name_key:
str, predic-
tion_value_key:
str, predic-
tion_name_value:
str, dis-
play_legend:
bool,
legend_icon:
str,
labels_key:
str | None =
None, width:
str = 'auto',
height: str =
'auto',
xOffset: str =
'0', yOffset:
str = '0',
labels: list |
None =
None,
consoli-
date_rows:
bool = True,
css_params:
dict | None =
None)
```

Bases: BaseObject

Rendering class for rendering a Doughnut Chart

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.rendering.DoughnutChartRendering(
    'my_label',
    'my_id',
    'my_doughnut_chart',
    'my_container_id',
    'name',
    'value',
    'name_value',
    True,
    'circle'
)
>>> my_obj.to_dict()
{'className': 'DoughnutChartRendering',
(continues on next page)
```

(continued from previous page)

```
'label': 'my_label',
'params': {'id': 'my_id',
'chartName': 'my_doughnut_chart',
'containerId': 'my_container_id',
'displayLegend': True,
'legendIcon': 'circle',
'width': 'auto',
'height': 'auto',
'x0ffset': '0',
'yOffset': '0',
'datasource': [{'labels': None,
    'labelsKey': None,
    'consolidateRows': True,
    'predictionNameKey': 'name',
    'predictionValueKey': 'value',
    'predictionNameValue': 'name_value'}]}}
```

 $\textbf{to_dict()} \rightarrow dict$

Get the configuration object as a dictionary

aisquared.config.rendering.FilterRendering module

Bases: BaseObject

Object which dictates how predictions are to be passed to downstream analytics

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.rendering.FilterRendering(
    'inputs',
    'key',
    'gt',
    0.2
)
>>> my_obj.to_dict()
{'className': 'FilterRendering',
    'params': {'source': 'inputs', 'key': 'key', 'qualifier': 'gt', 'value': 0.2}}
```

```
property key
property qualifier
property source
to_dict() → dict
    Get the configuration object as a dictionary
property value
```

aisquared.config.rendering.HTMLTagRendering module

Bases: BaseObject
Rendering for HTML tags

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.rendering.HTMLTagRendering(
    'my HTML tag',
    'MyHTMLTagRenderingID',
    'MyContainerID',
    'Example Text',
    'extra_tag',
    'append',
    'name_key',
    'value_key',
    'name_value'
>>> my_obj.to_dict()
{'className': 'HTMLTagRendering',
'label': 'my HTML tag',
'params': {'id': 'MyHTMLTagRenderingID',
'containerId': 'MyContainerID',
'htmlContent': 'Example Text',
'extraContentTag': 'extra_tag',
'injectionAction': 'append',
'predictionNameKey': 'name_key',
'predictionValueKey': 'value_key'
'predictionNameValue': 'name_value',
'content': ''}}
```

 $to_dict() \rightarrow dict$

Return the configuration object as a dictionary

aisquared.config.rendering.lmageRendering module

```
class aisquared.config.rendering.ImageRendering.ImageRendering(color: str = 'blue', thickness: str =
                                                                                 '5', placement: str = 'bottomleft',
                                                                                include\_probability: bool = False,
                                                                                badge\_color: str = 'white',
                                                                                font_color: str = 'black', font_size:
                                                                                str = '5', classes: list | None =
                                                                                None, threshold_key: str | None =
                                                                                None, threshold_value: int | float |
                                                                                None = None)
```

Bases: BaseObject

Object which dictates how to render images

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.rendering.ImageRendering()
>>> my_obj to_dict()
{'className': 'ImageRendering',
'params': {'color': 'blue',
'thickness': '5',
'placement': 'bottomleft',
'includeProbability': False,
'badgeColor': 'white',
'fontColor': 'black',
'fontSize': '5',
'classes': None,
'thresholdKey': None,
'thresholdValue': None}}
```

```
property badge_color
property classes
property color
property font_color
property font_size
property include_probability
property placement
property thickness
property threshold_key
property threshold_value
to\_dict() \rightarrow dict
    Get the configuration object as a dictionary
```

aisquared.config.rendering.LineChartRendering module

prediction_name_key: str, prediction value key: str, prediction_name_value: str, display_legend: bool, legend_icon: str, labels_key: str, width: str = 'auto', height: str= 'auto', xOffset: str ='0', yOffset: str = '0', labels: list | None = None, consolidate_rows: bool = True, css_params: $dict \mid None = None$)

Bases: BaseObject

Rendering class for rendering a Line Chart

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.rendering.LineChartRendering(
    'my_label',
    'my_id',
    'my_line_chart',
    'my_container_id',
    'name',
    'value',
    'name_value',
    True,
    'circle',
    'labels'
>>> my_obj.to_dict()
{'className': 'LineChartRendering',
'label': 'my_label',
'params': {'id': 'my_id',
'chartName': 'my_line_chart',
'containerId': 'my_container_id',
'displayLegend': True,
'legendIcon': 'circle',
'width': 'auto',
'height': 'auto',
'xOffset': '0',
'yOffset': '0',
'datasource': [{'labels': None,
    'labelsKey': 'labels',
                                                                          (continues on next page)
```

```
'consolidateRows': True,
'predictionNameKey': 'name',
'predictionValueKey': 'value',
'predictionNameValue': 'name_value'}]}}
```

```
to\_dict() \rightarrow dict
```

Get the configuration object as a dictionary

aisquared.config.rendering.ObjectRendering module

```
class aisquared.config.rendering.ObjectRendering.ObjectRendering(color: str = 'blue', thickness: str = '5', placement: str = 'bottomleft', include_probability: bool = False, badge_color: str = 'white', font_color: str = 'black', font_size: str = '5')
```

Bases: BaseObject

Object which dictates how to render object detection in images

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.rendering.ObjectRendering()
>>> my_obj.to_dict()
{'className': 'ObjectRendering',
'params': {'color': 'blue',
'thickness': '5',
'placement': 'bottomleft',
'includeProbability': False,
'badgeColor': 'white',
'fontColor': 'black',
'fontSize': '5'}}
```

```
property badge_color

property color

property font_color

property font_size

property include_probability

property placement

property thickness

to_dict() → dict

Get the configuration object as a dictionary
```

aisquared.config.rendering.PieChartRendering module

class aisquared.config.rendering.PieChartRendering.PieChartRendering(label: str, id: str,

chart_name: str, container_id: str, prediction_name_key: str, prediction_value_key: str, prediction name value: str, display_legend: bool, legend_icon: str, labels_key: str | None = *None*, *width:* str = 'auto', height: str = 'auto',xOffset: str = '0', yOffset:str = '0', labels: list | None= None, $consolidate_rows:\ bool =$ True, css_params: dict | None = None)

Bases: BaseObject

Rendering class for rendering a Pie Chart

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.rendering.PieChartRendering(
        'my_label',
        'my_id',
        'my_doughnut_chart',
        'my_container_id',
        'name',
        'value',
        'name_value',
        True,
        'circle'
    )
>>> my_obj.to_dict()
{'className': 'PieChartRendering',
'label': 'my_label',
'params': {'id': 'my_id',
'chartName': 'my_doughnut_chart',
'containerId': 'my_container_id',
'displayLegend': True,
'legendIcon': 'circle',
'width': 'auto',
'height': 'auto',
'xOffset': '0',
'yOffset': '0',
'datasource': [{'labels': None,
    'labelsKey': None,
    'consolidateRows': True,
    'predictionNameKey': 'name',
    'predictionValueKey': 'value',
                                                                          (continues on next page)
```

```
'predictionNameValue': 'name_value'}]}}
to_dict() → dict
```

aisquared.config.rendering.SOSRendering module

Get the configuration object as a dictionary

```
class aisquared.config.rendering.SOSRendering.SOSRendering(can\_toggle: bool, label: str = ")
Bases: BaseObject
```

Rendering of an SOS dashboard

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.rendering.SOSRendering(True)
>>> my_obj.to_dict()
{'className': 'SOSRendering', 'label': '', 'params': {'canToggle': True}}
```

```
property can_toggle
```

```
property label
```

 $to_dict() \rightarrow dict$

Get the configuration object as a dictionary

aisquared.config.rendering.TableRendering module

Bases: BaseObject

Class for rendering tables

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.rendering.TableRendering(
    'my table',
    'MyTableID',
    'MyContainerID',
    'name_key',
    'value_key',
    'name_values'
)
>>> my_obj.to_dict()
{'className': 'TableRendering',
    'label': 'my table',
```

(continues on next page)

```
'params': {'id': 'MyTableID',
'containerId': 'MyContainerID',
'predictionNameKey': 'name_key',
'predictionValueKey': 'value_key',
'predictionNameValues': 'name_values',
'tableName': ''}}
```

```
to\_dict() \rightarrow dict
```

Get the configuration object as a dictionary

aisquared.config.rendering.TextRendering module

Bases: BaseObject

Class for rendering text

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.rendering.TextRendering(
    prediction_value_key = 'my_key'
)
>>> my_obj.to_dict()
{'className': 'TextRendering',
'params': {'predictionValueKey': 'my_key'}}
```

property prediction_value_key

```
to_dict()
```

Get the object as a dictionary

aisquared.config.rendering.WordRendering module

None, position: str = 'after')

Bases: BaseObject

Object for rendering badges on individual words

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.rendering.WordRendering()
>>> my_obj.to_dict()
(continues on next page)
```

```
{'className': 'WordRendering',
   'params': {'wordList': 'input',
   'resultKey': None,
   'contentKey': None,
   'badgeShape': 'star',
   'badgeColor': 'blue',
   'classes': None,
   'thresholdKey': None,
   'thresholdValue': None
   'position': 'after'}}
property badge_color
```

```
property badge_color

property badge_shape

property classes

property content_key

property position

property result_key

property threshold_key

property threshold_value

to_dict() → dict

Get the configuration object as a dictionary

property word_list
```

aisquared.config.rendering.utils module

```
aisquared.config.rendering.utils.save_default_css()
```

Save default CSS so that default CSS can be edited and automatically utilized with changes

Notes

• Saves all CSS files to the ~/.aisquared/ directory

Module contents

The aisquared.config.rendering subpackage contains objects for configuring how rendering of predictions is to occur.

Submodules

aisquared.config.CustomObject module

Bases: BaseObject

Custom class that allows the user to define custom classes for configuration

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.base.CustomObject(
    'MyClass',
    key1 = 'foo',
    key2 = 'bar'
    )
>>> my_obj.to_dict()
{'className': 'MyClass', 'params': {'key1': 'foo', 'key2': 'bar'}}
)
```

 $to_dict() \rightarrow dict$

Get the object as a dictionary

aisquared.config.GraphConfiguration module

class aisquared.config.GraphConfiguration.**GraphConfiguration**(*name: str, stage: str* =

'experimental', version: int | None = None, description: str = ", mlflow_uri: str | None = None, mlflow_user: str | None = None, mlflow_token: str | None = None, owner: str | None = None, url: str = '*', auto_run: bool = False, documentation link: str = ")

Bases: BaseObject

Configuration object for deploying a set of processing steps and/or analytics as a dependency graph

add_node(step: BaseObject, dependencies: int | list | None = None) \rightarrow int

Add a node to the configuration graph

Parameters

- **step** (aisquared configuration step) The step to add
- **dependencies** (*int*, *list of int*, *or None*) The ids of nodes which must be run before the added node

Returns

node_id – The integer id of the node that is added

Return type

int

property auto_run

```
compile(filename: str \mid None = None, dtype: str \mid None = None) \rightarrow None
```

Compile the object into a '.air' file, which can then be dragged and dropped into applications using the AI Squared JavaScript SDK

Parameters

- **filename** (path-like or None (default None)) Filename to compile to. If None, defaults to '{NAME}.air', where {NAME} is the name of the analytic
- **dtype** (*str or None* (*default None*)) The datatype to use for the model weights when using a Keras model. If None, defaults to 'float32'

```
property description
property documentation_link
get_filenames() → list
          Get filenames for all models in the configuration
property mlflow_token
property mlflow_uri
property mlflow_user
property name
property owner
property stage
to_dict() → dict
          Get the object as a dictionary
property url
property version
```

aisquared.config.ModelConfiguration module

```
class aisquared.config.ModelConfiguration.ModelConfiguration(name: str, harvesting_steps:
                                                                            BaseObject | list | None = None,
                                                                            preprocessing steps: BaseObject |
                                                                            list | None = None, analytic:
                                                                            BaseObject | list | None = None,
                                                                            postprocessing steps: BaseObject |
                                                                            list | None = None, rendering steps:
                                                                            BaseObject | list | None = None,
                                                                            feedback_steps: BaseObject | list |
                                                                            None = None, stage: str =
                                                                            'experimental', version: int | None =
                                                                            None, description: str = ",
                                                                            mlflow\_uri: str \mid None = None,
                                                                            mlflow\_user: str \mid None = None,
                                                                            mlflow\_token: str \mid None = None,
                                                                            owner: str \mid None = None, url: str =
                                                                            '*', auto\_run: bool = False,
                                                                            documentation link: str = ")
     Bases: BaseObject
     Configuration object for deploying a model or analytic
     property analytic
     property analytic_dict
     property auto_run
     compile(filename: str \mid None = None, dtype: str \mid None = None) \rightarrow None
           Compile the object into a '.air' file, which can then be dragged and dropped into applications using the AI
           Squared JavaScript SDK
               Parameters
                    • filename (path-like or None (default None)) - Filename to compile to. If None,
                     defaults to '{NAME}.air', where {NAME} is the name of the analytic
                    • dtype (str or None (default None)) – The datatype to use for the model weights.
                     If None, defaults to 'float32'
     property description
     property documentation_link
     property feedback_dict
     property feedback_steps
     get_model_filenames() \rightarrow list
           Get filenames for all models in the configuration
     property harvester_dict
```

1.1. aisquared 43

property harvesting_steps

property mlflow_token

property mlflow_uri

```
property mlflow_user

property name

property owner

property postprocesser_dict

property postprocessing_steps

property preprocesser_dict

property preprocessing_steps

property render_dict

property rendering_steps

property stage

to_dict() → dict

Get the object as a dictionary

property version
```

Module contents

The aisquared.config subpackage contains utilities and objects for packaging aisquared configuration steps and models.

 $For in-depth \ examples \ of \ how \ to \ build \ out \ . air files \ using \ the \ utilities \ and \ classes \ in \ this \ library, \ please \ visit \ our \ GitHub \ repository \ at \ https://github.com/AISquaredInc/airFiles$

aisquared.logging package

Module contents

The aisquared.logging subpackage contains utilities for performing experiments within aisquared.

This functionality is inhereted from MLFlow. Please see the MFLow documentatation at https://mlflow.org.

aisquared.platform package

Submodules

aisquared.platform.AISquaredAPIException module

```
exception aisquared.platform.AISquaredAPIException.AISquaredAPIException
Bases: Exception
```

aisquared.platform.AISquaredPlatformClient module

 ${\bf class} \ {\bf aisquared.platform.AISquaredPlatformClient. {\bf AISquaredPlatformClient} (use_port:\ bool = False)}$

Bases: object

Client for interacting with the AI Squared platform programmatically

When using the client for the first time, it is important to run the *client.login()* method. When doing so, the client will ask for any required information interactively.

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> # If you have never logged in before, run the following code:
>>> client.login()
>>> # Test connection
>>> client.test_connection()
True
```

add_users_to_group($group_id: str, user_ids: list, port: int = 8086, use_port: bool | None = None) <math>\rightarrow$ bool Add users to a group

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.add_users_to_group('group_id', ['user_id_1', 'user_id_2'])
True
```

Parameters

- **group_id** (str) The group to add the users to
- user_ids (list of str) The IDs of the users to add
- port (int (default 8086)) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

success - Returns True if operation was successful

Return type

bool

property base_url: str

The base URL associated with the client

create_group($display_name: str, role_id: str, port: int = 8086, use_port: bool | None = None) <math>\rightarrow$ dict Create a group in the platform

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.create_group(
    'group display name',
    'role_id'
```

(continues on next page)

```
)
*dictionary containing group information*
```

Parameters

- **display_name** (*str*) The display name of the group
- **role_id** (*str*) The role ID for the group
- **port** (*int* (*default* 8086)) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

```
group_info – Metadata about the created group
```

Return type

dict

```
create_user(user\_name: str, given\_name: str, family\_name: str, email: str, role\_id: str, active: bool = True, middle\_name: str \mid None = None, company\_id: str \mid None = None, password: str \mid None = None, port: int = 8085, use\_port: bool \mid None = None) \rightarrow dict
```

Create a user within the platform

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.create_user(
    'user name',
    'given_name',
    'family_name',
    'user_email',
    'role_id'
)
*Dictionary with user information*
```

Parameters

- **user_name** (*str*) The display name of the user
- **given_name** (str) The user's first name
- family_name (str) The user's last name
- **email** (*str*) The user's email
- **role_id** (*str*) The ID of the role to be given to the user
- active (bool (default True)) Whether the user is active
- middle_name (str or None (default None)) The user's middle name
- company_id (str or None (default None)) The user's company ID
- password (str or None (default None)) The user's password
- **port** (*int* (*default* 8085)) The API port for the call. This can be handled automatically by the platform ALB

• use_port (bool or None (default None)) – Whether to use port in URL formatting. If None, defaults to class value

Returns

user data - Metadata about the user

Return type

dict

 $delete_group(group_id, port=8086, use_port: bool \mid None = None) \rightarrow bool$

Delete a group from the platform

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.delete_group('group_id')
True
```

Parameters

- **group_id** (*str*) The ID of the group to delete
- **port** (*int* (*default* 8086)) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

result – Returns True if successful

Return type

bool

 $delete_model(id: str, port: int = 8080, use_port: bool | None = None) \rightarrow bool$

Delete a model

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.delete_model('model_id')
True
```

Parameters

- id (str) The ID for the model
- **port** (*int* (*default* 8080)) The API port for the model. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

success - Whether the action was successful

Return type

bool

 $\texttt{delete_user}(\textit{user_id: str, port: int} = 8085, \textit{use_port: bool} \mid \textit{None} = \textit{None}) \rightarrow \texttt{bool}$

Delete a user from the system

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.delete_user('user_id')
True
```

Parameters

- user_id (str) The user's ID
- **port** (*int* (*default* 8085)) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

result – Returns True if the call is successful

Return type

bool

 $\texttt{get_group}(group_id: str, port: int = 8086, use_port: bool \mid None = None) \rightarrow dict$

Retrieve information about a group

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.get_group('group_id')
*dictionary containing group data*
```

Parameters

- group_id (str) The ID of the group requested
- **port** (*int* (*default* 8086)) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

group_info - The information about the group

Return type

dict

get_group_id_by_name($group_name: str, port: int = 8083, use_port: bool | None = None) <math>\rightarrow$ str Get the ID of a group by searching for its display name

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.get_group_id_by_name('Group Name')
*group_id*
```

Parameters

- **group_name** (str) The display name of the group
- **port** (*int* (*default* 8083)) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

```
group_id – The ID of the group
```

Return type

str

```
\textbf{get\_model}(\textit{id: str, port: int} = 8080, \textit{use\_port: bool} \mid \textit{None} = \textit{None}) \rightarrow \text{dict}
```

Retrieve a model configuration

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.get_model('model_id')
*JSON Response including model data and metadata*
```

Parameters

- **id** (*str*) The ID for the model
- **port** (*int* (*default* 8080)) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

model – Metadata about the model coupled with the model's configuration information

Return type

dictionary

get_model_id_by_name($model_name: str, port: int = 8080, use_port: bool | None = None) <math>\rightarrow$ str Retrieve a model's ID using the name of the model

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.get_model_id_by_name('my_awesome_model')
*model_id*
```

Parameters

- model_name (str) The name of the model
- **port** (*int* (*default* 8080)) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

model_id - The model's ID

Return type

str

get_role_id_by_role_name($role_name$: str, port: int = 8086, use_port : $bool \mid None = None$) \rightarrow str Get the ID of a role by searching for its display name

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.get_role_id_by_role_name('Role Name')
*role_id*
```

Parameters

- role_name (str) The name of the role
- **port** (*int* (*default* 8086)) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

role_id - The ID of the role

Return type

Sfi

get_user($user_id: str, port: int = 8085, use_port: bool | None = None) <math>\rightarrow$ dict Retrieve a user's information from the platform

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.get_user('user_id')
*dictionary with results*
```

Parameters

- $\mathbf{user_id}(str)$ The ID of the user
- **port** (*int* (*default* 8085)) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

user info – The information about the user

Return type

dict

get_user_id_by_name($name: str, port: int = 8080, use_port: bool | None = None) <math>\rightarrow$ str Get a user's ID from their display name

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.get_user_id_by_name('User Name')
*user_id*
```

- name (str) The display name of the user
- **port** (*int* (*default* 8080)) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

id – The ID of the user

Return type

str

property headers

Headers used for authentication with the AI Squared Platform

 $\label{list_group_users} \textbf{[group_id: str, as_df: bool = True, port: int = 8083, use_port: bool | None = None)} \rightarrow \\ \textbf{DataFrame | dict}$

List users in a group

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.list_group_users('group_id')
*DataFrame with results*
```

Parameters

- **group_id** (str) The ID for the group
- as_df (bool (default True)) Whether to return the response as a pandas DataFrame
- **port** (*int* (*default* 8083)) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

users – The response from the API

Return type

pandas DataFrame or dictionary

 $\label{list_groups} \mbox{\it (max_count: int = 100, as_df: bool = True, port: int = 8083, use_port: bool | None = None)} \rightarrow \mbox{\it DataFrame | dict}$

List all groups

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.list_groups()
*DataFrame with results*
```

Parameters

• max_count (int (default 100)) - The maximum number of groups to return

- as_df (bool (default True)) Whether to return the result as a pandas DataFrame
- **port** (*int* (*default* 8083)) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

groups – The response from the API

Return type

pandas DataFrame or dictionary

 $list_model_feedback(model_id: str, limit: int = 10, as_df: bool = True, port: int = 8080, use_port: bool | None = None) \rightarrow dict | DataFrame$

List feedback on a model

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.list_model_feedback('model_id')
*DataFrame with Results*
```

Parameters

- model_id (str) The ID of the model
- limit (int (default 10)) The maximum number of feedback items to return
- port(int (default 8080)) The API port to use. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

feedback – The feedback

Return type

dict or pandas DataFrame

list_model_prediction_feedback($model_id: str, as_df: bool = True, port: int = 8080, use_port: bool | None = None) <math>\rightarrow$ dict | DataFrame

List all feedback for a model

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.list_model_prediction_feedback('model_id')
*DataFrame with Results*
```

Parameters

- model_id (str) The ID of the model requested
- as_df (bool (default True)) Whether to return the results as a pandas DataFrame
- **port** (*int* (*default* 8080)) The API port to use. This can be handled automatically by the platform ALB

• use_port (bool or None (default None)) – Whether to use port in URL formatting. If None, defaults to class value

Returns

results – The results from the platform

Return type

dict or pandas DataFrame

 $list_model_usage_metrics(model_id: str, period: str = 'hourly', as_df: bool = True, port: int = 8080, use_port: bool | None = None) <math>\rightarrow$ dict | DataFrame

Get usage metrics for a model

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.get_model_usage_metrics('model_id')
*DataFrame with results*
```

Parameters

- model_id (str) The ID of the model
- **period** (str (default 'hourly')) The period to group metrics into
- **as_df** (bool (default True)) Whether to return results as a pandas DataFrame
- **port** (*int* (*default* 8080)) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

results – The results from the platform

Return type

pandas DataFrame or dict

 $\label{list_model_users} \textbf{list_model_users}(\textit{id: str, as_df: bool} = \textit{True, port: int} = 8080, \textit{use_port: bool} \mid \textit{None} = \textit{None}) \rightarrow \\ \textbf{DataFrame} \mid \textbf{dict}$

List users for a model

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.list_model_users('model_id')
*DataFrame with results*
```

Parameters

- id (str) The ID for the model
- $\bullet \ \ \textbf{as_df} \ (bool \ \ (\textit{default True})) Whether to return the response as a Pandas \ Data Frame$
- **port** (*int* (*default* 8080)) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

model users - The users for the model

Return type

pandas DataFrame or dictionary

 $list_models(as_df: bool = True, port: int = 8080, use_port: bool | None = None) \rightarrow DataFrame | dict List models within the platform$

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.list_models()
*DataFrame with results*
```

Parameters

- as_df (bool (default True)) Whether to return the response as a pandas DataFrame
- **port** (*default None*) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

models – The models

Return type

pandas DataFrame or dictionary

 $\label{list_prediction_id: str, as_df: bool = True, port: int = 8080, use_port: bool | None = None) \rightarrow DataFrame | dict$

List prediction feedback given a prediction ID

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.list_prediction_feedback('prediction_id')
*DataFrame with results*
```

Parameters

- **prediction_id** (str) The prediction ID
- as_df (bool (default True)) Whether to return the results as a pandas DataFrame
- **port** (*int* (*default* 8080)) The API port to use. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

results – The results from the platform

Return type

pandas DataFrame or dict

list_roles($as_df: bool = True, port: int = 8086, use_port: bool | None = None) <math>\rightarrow$ DataFrame | dict List the roles available in the platform

Example usage:

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.list_roles()
*DataFrame with results*
```

Parameters

- as_df (bool (default True)) Whether to return the results as a pandas DataFrame
- **port** (*int* (*default* 8086)) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

roles – The roles

Return type

pandas DataFrame or dict

 $list_user_usage_metrics(user_id: str, period: str = 'hourly', as_df: bool = True, port: int = 8080, use_port: bool | None = None) <math>\rightarrow$ dict | DataFrame

Get usage metrics for a user

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.get_user_usage_metrics('user_id')
*DataFrame with results*
```

Parameters

- $\mathbf{user_id}(str)$ The ID of the user
- **period** (str (default 'hourly')) The period to group metrics into
- as_df (bool (default True)) Whether to return results as a pandas DataFrame
- **port** (*int* (*default* 8080)) The API port for the call. This can be handled automatically by the platform ALB
- use_port(bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

results – The results from the platform

Return type

pandas DataFrame or dict

 $\label{list_users} \textbf{(max_count: int = 100, as_df: bool = True, port: int = 8080, use_port: bool \mid None = None)} \rightarrow \textbf{DataFrame} \mid \textbf{dict}$

List all users

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.list_users()
*DataFrame with results*
```

- max_count (int (default 100)) The maximum number of users to return
- as_df (bool (default True)) Whether to return the data as a Pandas DataFrame
- **port** (*int* (*default* 8080)) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

users – The response from the API

Return type

pandas DataFrame or dictionary

```
login(url: str \mid None = None, port: int = 8080, username: str \mid None = None, password: str \mid None = None, use port: bool \mid None = None) \rightarrow None
```

Log in to the platform programmatically. If no url, username, or password are provided, logs in interactively

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.login()
Enter URL: https://platform.squared.ai
Enter Username: your.email@your_domain.com
Enter Password: <hidden>
```

Parameters

- url (str or None (default None)) The URL for the platform API
- port(int or None (default 8080)) The API port for the call. This can be handled automatically by the platform ALB
- username (str or None (default None)) The username
- password (str or None (default None)) The password
- use_port(bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

property password: str

The password associated with the client

```
\begin{tabular}{ll} \textbf{remove\_users\_from\_group}(group\_id: str, user\_ids: list, port: int = 8086, use\_port: bool \mid None = None) \\ \rightarrow bool \\ \end{tabular}
```

Remove users from a group

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.remove_users_from_group('group_id', ['user_id_1', 'user_id_2'])
True
```

- **group_id** (str) The ID of the group
- user_ids (list of str) The IDs of the users to remove
- **port** (*int* (*default* = 8086)) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

success - Returns True if successful

Return type

bool

```
share_model_with_group(model\_id: str, group\_id: str, port: int = 8080, use\_port: bool | None = None)
\rightarrow bool
```

Share a model with a group

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.share_model_with_group('model_id', 'group_id')
True
```

Parameters

- model_id (str) The ID for the model to be shared
- **group_id** (*str*) The ID for the group to be shared with. This can be handled automatically by the platform ALB
- **port** (*int* (*default* 8080)) The API port to use. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

success - Returns True if successful

Return type

bool

 $share_model_with_user(model_id: str, user_id: str, port: int = 8080, use_port: bool | None = None) \rightarrow bool$

Share a model with a user

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.share_model_with_user('model_id', 'user_id')
True
```

- model_id (str) The ID for the model
- **user_id** (str) The ID for the user
- **port** (*int* (*default* 8080)) The API port for the call. This can be handled automatically by the platform ALB
- use_port(bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

success – Whether the action was successful

Return type

bool

 $test_connection(port: int = 8080, use_port: bool | None = None) \rightarrow bool$

Test whether there is a healthy connection to the platform

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.test_connection()
True
```

Parameters

- **port** (*int* (*default* 8080)) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

success - True if connection was successful

Return type

bool

property token: str

The token associated with the client

unshare_model_with_group($model_id$: str, $group_id$: str, port: int = 8080, use_port : bool | None = None) $\rightarrow bool$

Unshare a model with a group

```
>>> import aisquared
>>> client = aisquared.client.AISquaredPlatformClient()
>>> client.unshare_model_with_group('model_id', 'group_id')
True
```

- model_id (str) The ID of the model
- **group_id** (str) The ID of the group
- **port** (*int* (*default* 8080)) The API port to use. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

success - Returns True if successful

Return type

bool

 $\label{local_model_id:str,user_id:str,port:int} \textbf{user}(\textit{model_id:str,user_id:str,port:int} = 8080, \textit{use_port:bool} \mid \textit{None} = \textit{None}) \rightarrow \textbf{bool}$

Unshare a model with a user

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.unshare_model_with_user('model_id', 'user_id')
True
```

Parameters

- model_id (str) The ID for the model
- user_id (str) The ID for the user
- **port** (*int* (*default* 8080)) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

success - Whether the action was successful

Return type

bool

update_group($group_id$: str, $display_name$: str, $role_id$: str, port: int = 8086, use_port : $bool | None = None) \rightarrow bool$

Update information about a group

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.update_group(
    'group_id',
    'group display name',
    'role_id'
)
True
```

Parameters

- **group_id** (str) The ID of the group to update
- **display_name** (*str*) The display name of the group
- role_id (str) The ID of the role for the group
- **port** (*int* (*default* 8086)) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

success - Returns True if successful

Return type

bool

update_user($user_id: str, user_name: str, given_name: str, family_name: str, email: str, role_id: str, active: bool = True, middle_name: str | None = None, company_id: str | None = None, password: str | None = None, port: int = 8085, use_port: bool | None = None) <math>\rightarrow$ bool

Update information about a user

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.update_user(
    'user_id',
    'user name',
    'given_name',
    'family_name',
    'user_email',
    'role_id'
)
True
```

Parameters

- user_id (str) The ID of the user to update
- **user_name** (*str*) The display name of the user
- given_name (str) The first name of the user
- **family_name** (*str*) The last name of the user
- **email** (str) The user's email
- role_id (str) The ID of the user's role
- active(bool (default True)) Whether the user is active
- middle_name (str or None (default None)) The user's middle name
- company_id (str or None (default None)) The user's company ID
- password (str or None (default None)) The user's password
- **port** (*int* (*default* 8085)) The API port for the call. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

success - Returns True if update is successful

Return type

bool

upload_model($model_file: str, port: int = 8081, use_port: bool | None = None) <math>\rightarrow$ str Upload a model to the platform

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.upload_model('my_model_filename.air')
True
```

Parameters

- model_file (path or path-like) The path to the model file
- **port** (*int* (*default* 8081)) The API port to use. This can be handled automatically by the platform ALB
- use_port (bool or None (default None)) Whether to use port in URL formatting. If None, defaults to class value

Returns

successful – Whether the action was successful

Return type

bool

property use_port

property username: sti

The username associated with the client

aisquared.platform.DatabricksAPIException module

exception aisquared.platform.DatabricksAPIException.DatabricksAPIException
Bases: Exception

aisquared.platform.DatabricksClient module

class aisquared.platform.DatabricksClient.DatabricksClient

Bases: object

Client for working with a connected Databricks environment

When using the client for the first time, it is important to authenticate the client using the *client.login()* method. When doing so, the client will ask for any required information interactively.

```
>>> import aisquared
>>> client = aisquared.platform.DatabricksClient()
>>> # If you have never logged in before, run the following code:
>>> client.login()
>>> # Interactive session requesting required information
```

property base_url: str

The base URL for the workspace

 $create_compute(compute_name: str, spark_version: str, node_type_id: str) \rightarrow dict$

Create a compute resource

Parameters

- **compute_name** (*str*) The name of the compute to create
- **spark_version** (*str*) The spark version to use for the compute resource
- **node_type_id** (*str*) The node type ID to use

Returns

compute_info – The information about the created compute resource

Return type

dict

create_job(job_name : str, tasks: list, libraries: list, $compute_name$: str, $spark_version$: str, $node_type_id$: str, $cron_syntax$: $str \mid None = None$, timezone: $str \mid None = None$) \rightarrow bool

Create a job using notebooks and/or scripts in the workspace

Parameters

- **job_name** (str) The name for the job
- **tasks** (*list of dict*) List of {task_name : task_script} dictionary pairs to run in the job
- **libraries** (*list of str*) The dependent libraries to install on all compute
- **compute_name** (str) The name of the compute to provision specifically for this job
- **spark_version** (*str*) The version of Spark to use on the compute instances
- **node_type_id** (*str*) The node type to use
- **cron_syntax** (*str or None* (*default None*)) If the job is to be set to a schedule, the cron syntax for that schedule
- **timezone** (*str or None* (*default None*)) The timezone to set the schedule to, if cron syntax is provided

Returns

success – Whether the create job call was successful

Return type

bool

 $create_served_model(model_name: str, model_version: str, workload_size: str, scale_to_zero_enabled: bool = True, workload_type: str = 'CPU') <math>\rightarrow$ dict

Create a model serving endpoint

Parameters

- **model_name** (*str*) The name of the model to serve
- model_version (str) The version of the model to serve
- workload_size (str) The workload size of the serving endpoint
- scale_to_zero_enabled (bool (default True)) Whether to allow for scaling the endpoint to zero

```
• type (workload) – The workload type - either 'CPU' or 'GPU'
         Returns
              configuration – Configuration information about the serving endpoint
         Return type
              dict
delete\_compute(compute\_id: str) \rightarrow bool
     Delete a compute resource in the workspace
         Parameters
              compute\_id(str) – The ID for the compute to delete
         Returns
             success - Whether the operation was successful
         Return type
             bool
delete\_from\_workspace(filename: str) \rightarrow bool
     Delete a file from the workspace
         Parameters
              filename (str) – The name of the file to delete
         Returns
             success – Whether the operation is successful
         Return type
              bool
delete_{job}(job\_id: str) \rightarrow bool
     Delete a job from the workspace
         Parameters
              job\_id(str) – The ID of the job to delete
         Returns
             success - Whether the delete operation was successful
         Return type
              bool
delete\_registered\_model(model\_name: str) \rightarrow bool
     Delete a registered model
         Parameters
             model_name (str) – The name of the model to delete
         Returns
              success - Whether the delete operation was successful
         Return type
              bool
delete\_served\_model(model\_name: str) \rightarrow bool
     Delete a served model in the workspace
         Parameters
             model_name (str) – The name of the model to delete
```

```
Return type
              bool
download\_from\_workspace(filename: str) \rightarrow str
     Download a file from the workspace
         Parameters
              filename (str) – The filename of the file to download
         Returns
              contents - The contents of the file
         Return type
              str
property headers: dict
     API headers for calls to the API
list_compute(as\_df: bool = True) \rightarrow dict | DataFrame
     List compute in the workspace
         Parameters
              as_df (bool (default True)) – Whether to return a pandas DataFrame
              compute – The compute resources in the workspace
         Return type
              dict or pd.DataFrame
list\_jobs(as\_df: bool = True) \rightarrow dict \mid DataFrame
     List all jobs in the workspace
         Parameters
              as_df (bool (default True)) – Whether to return a pandas DataFrame
             jobs – The jobs that exist in the workspace
         Return type
              dict or pandas DataFrame
list\_registered\_models(as\_df: bool = True) \rightarrow dict \mid DataFrame
     List registered models in the workspace
         Parameters
             as_df (bool (default True)) – Whether to return a pandas DataFrame
         Returns
              models – The models in the workspace
         Return type
             dict or pandas DataFrame
list\_served\_models(as\_df: bool = True) \rightarrow dict \mid DataFrame
     List served models in the workspace
         Parameters
              as_df (bool (default True)) – Whether to return results as a pandas DataFrame
```

success – Whether the delete operation was successful

models – The models served in the workspace

Return type

dict or pandas DataFrame

 $list_workspace(as_df: bool = True) \rightarrow DataFrame | dict$

List files in the connected Databricks workspace

Parameters

as_df (bool (default True)) – Whether to return the results as a pandas DataFrame

Returns

results – The files in the workspace

Return type

dict or pd.DataFrame

 $login(url: str \mid None = None, username: str \mid None = None, token: str \mid None = None, persist: bool = True) \rightarrow None$

Log in to the Databricks environment programmatically

```
>>> import aisquared
>>> client = aisquared.platform.DatabricksClient()
>>> client.login()
Enter URL: {Databricks_workspace_url}
Enter Username: your.email@your_domain.com
Enter Secret Token: <hidden>
```

Parameters

- url (str or None (default None)) The URL of the Databricks workspace
- username (str or None (default None)) The username in the Databricks workspace
- ullet token (str or None (default None)) The secret token for the Databricks workspace
- **persist** (*bool* (*default True*)) Whether to persist the login information, eliminating the need to run this command again in the future

```
run_job(job\_id: str) \rightarrow int
```

Run a job

Parameters

 $\mathbf{job_id}$ (str) – The ID of the job to run

Returns

run_id - The ID of the specific run that was created

Return type

int

 $start_compute(compute_id: str) \rightarrow bool$

Start a compute resource

Parameters

compute_id (str) – The ID of the compute to start

success – Whether the start operation was successful

Return type

bool

$stop_compute(compute_id: str) \rightarrow bool$

Stop a compute resource

Parameters

compute_id (str) – The ID of the compute to start

Returns

success – Whether the stop operation was successful

Return type

bool

property token: str

The token to use for the workspace

update_job(job_id : int, job_name : str, tasks: list, libraries: list, $compute_name$: str, $spark_version$: str, $node_type_id$: str, $cron_syntax$: $str \mid None = None$, timezone: $str \mid None = None$) \rightarrow bool

Update a job by Job ID using notebooks and/or scripts in the workspace

Parameters

- **job_id** (*int*) The unique identifier of the job to update
- job_name (str) The new name for the job
- **tasks** (*list of dict*) List of {task_name : task_script} dictionary pairs to run in the updated job
- **libraries** (*list of str*) The dependent libraries to install on all compute for the new job
- $compute_name(str)$ The name of the compute to provision specifically for the new job
- **spark_version** (*str*) The version of Spark to use on the compute instances
- **node_type_id** (*str*) The node type to use
- **cron_syntax** (*str or None* (*default None*)) If the new job is to be set to a schedule, the cron syntax for that schedule
- **timezone** (*str or None* (*default None*)) The timezone to set the schedule to, if cron syntax is provided

Returns

success – Whether the update job call was successful

Return type

bool

 $upload_to_workspace(filename: str, overwrite: bool = False) \rightarrow bool$

Upload a file to the workspace

Parameters

- **filename** (str) The name of the file to upload
- **overwrite** (*bool* (*default False*)) Whether to overwrite the file if one of the same name already exists in the workspace

```
Returns
```

success – Whether the upload was successful

Return type

bool

property username: str

The user's username

aisquared.platform.NoResultsFoundError module

exception aisquared.platform.NoResultsFoundError.NoResultsFoundError

Bases: Exception

aisquared.platform.additional_utils module

aisquared.platform.crudl module

aisquared.platform.feedback module

aisquared.platform.metrics module

aisquared.platform.sharing module

aisquared.platform.user_group module

Module contents

Utilities for interacting with the AI Squared Platform.

The primary class within this subpackage is the *AISquaredPlatformClient* class, which has the capabilities to interact with much of the functionality in the AI Squared platform. For more information about this class, please see its documentation.

aisquared.serving package

Submodules

aisquared.serving.deploy_model module

```
aisquared.serving.deploy_model.deploy_model(saved\_model: str, model\_type: str, host: str = '127.0.0.1', port: int = 2244, custom\_objects: dict \mid None = None, additional\_functions\_file: str \mid None = None)
```

Deploy a model to a Flask server on the specified host

Parameters

- **saved_model** (*Path-like*) The path to the saved model directory or model file
- model_type (str) The type of model

- host (str (default '127.0.0.1')) The host to deploy to
- port (int (default 2244)) The port to deploy to
- **custom_objects** (*dict or None* (*default None*)) Any custom objects to load when using a BeyondML model
- additional_functions_file (file-like or None (default None)) File name containing additional functions (which have to be named preprocess and postprocess, if created) that are used during the prediction process

aisquared.serving.deploy_model.load_beyondml_model(model: str, custom_objects: dict)

Load a BeyondML model with custom objects

aisquared.serving.get_remote_prediction module

```
aisquared.serving.get_remote_prediction.get_remote_prediction(data: dict \mid str \mid ndarray \mid list, host: str = '127.0.0.1', port: int = 2244') <math>\rightarrow list
```

Send data to use for prediction

Parameters

- data (dict, str, np.ndarray, or list) The data to be predicted on
- host (str (default '127.0.0.1')) The host to use
- port (int (default '2244')) The port to use

Notes

- If data is a dictionary, it is expected to already be correctly formatted
- If data is a string, it is expected to already be correctly formatted

Returns

predictions – The predictions from the deployed model

Return type

list

Module contents

The aisquared serving package contains utilities to serve models to a local REST endpoint.

Here is an example of how to serve a simple keras model using these utilities:

(continues on next page)

(continued from previous page)

```
)
App created successfullly. Serving and awaiting requests
```

And to retrieve predictions from the model:

```
>>> # From a separate terminal, assume data is already loaded
>>> from aisquared import serving
>>> serving.get_remote_predictions(data) # Do not need to change host or port if_
--predicting from the same machine
*predictions*
```

aisquared.utils package

Submodules

aisquared.utils.utils module

```
aisquared.utils.utils.get_model(model_type: str, input_shape: int | tuple, num_outputs: int, output_activation: str, size: str = 'small', vocab_size: None | int = None)
```

Get a pre-configured model for different use cases

Parameters

- model_type (str) Either 'cv', 'nlp_embedding', or 'fc', defining the model type
- input_shape (int or tuple of int) The input shape to the model
- **num_outputs** (*int*) The output shape of the model
- output_activation (str or keras activation function) The activation of the final layer of the model
- size (str (default 'small')) One of either 'small', 'medium', or 'large'
- **vocab_size** (str or None (default None)) Size of the vocab, if model_type is 'nlp_embedding'

Returns

 $\boldsymbol{model}-The\ model$

Return type

TensorFlow Keras model

```
aisquared.utils.utils.mimic_model (trained_model: BaseEstimator, nnet: Model, training_data: ndarray, test_data: ndarray, test_labels: ndarray, problem_type: str, loss: str, metrics: str | list, optimizer: str, mimic_proba: bool = False, retention: float = 0.9, batch_size: int = 32, epochs: int = 100, starting_sparsification: int = 0, max_sparsification: int = 99, sparsification_rate: int = 5) \rightarrow Model
```

Train a sparse neural network to mimic a scikit-learn model

Parameters

- trained_model (sklearn model) The model that is already trained
- **nnet** (*TensorFlow keras Model*) The neural network to train to mimic the trained model

1.1. aisquared 69

- **training_data** (*array or array-like*) The input data that was used to train the trained model
- test_data (array or array-like) The input data to be used for testing
- **test_labels** (*array or array-like*) The output data used in testing
- **problem_type** (str) The type of problem, either 'classification' or 'regression'
- loss (str or keras loss function) The loss to use
- metrics (str, function or list of str, function) Metrics to measure
- **optimizer** (*str or keras optimizer*) The optimizer to use
- mimic_proba (bool (default False)) For classification, mimic the probability outputs
- **retention** (*float* (*default* 0.9)) The retention of performance to allow further pruning
- batch_size (int (default 32)) The batch size to use while training
- **epochs** (*int* (*default* 100)) The number of epochs (if early stopping is not met beforehand)
- starting_sparsification (int (default 0)) The starting model sparsification
- max_sparsification (int (default 99)) The maximum sparsification to allow
- sparsification_rate (int (default 5)) The sparsification rate when invoked

Returns

nnet - The trained model

Return type

TensorFlow keras Model

Module contents

Additional utilities to use with the *aisquared* package. These utilities currently consist of two functions, the *mimic_model* and *get_model* functions. They utilize functionality that exists in our open source package BeyondML to train teacher-student models

To see in-depth examples of how to use these functions, please visit our GitHub repository at https://github.com/AISquaredInc/MimicModelExamples

1.1.1.2 Module contents

This package contains utilities to interact with the AI Squared technology stack, particularly with developing and deploying models to the AI Squared Browser Extension or other applications developed through the AI Squared JavaScript SDK.

TWO

CHANGELOG

• Version 0.1.3

- Added *flags* parameter to *TextHarvester* using regular expression harvesting
- Deleted model_feedback parameter in ModelConfiguration object and included functionality in feedback_steps parameter
- Changed format parameter to header for both deployed analytics
- Added feedback and stages to *DocumentPredictor* and *ImagePredictor* objects
- Non-API changes for ALLOWED_STAGES
- Fixed bugs preventing Windows users from importing the package
- Updated ModelConfiguration to include url parameter
- Changed default tokenization string

• Version 0.2.0

- Moved preprocessing steps under subpackages for specific kinds of preprocessing steps
- Cleaned up documentation to render within programmatic access environments
- Added aisquared.logging subpackage

- Created InputHarvester

- * Allows for harvesting of input text, images, and tabular data
- Created the aisquared.serving subpackage, specifically the deploy_model and get_remote_prediction functions
- Created the GraphConfiguration class
- Added auto-run parameter to ModelConfiguration and GraphConfiguration classes

- Created the aisquared CLI with the following commands:

- * aisquared deploy, which deploys a model locally
- * aisquared predict, which predicts using a local JSON file
- * aisquared airfiles, which contains the subcommands list, delete, download, and upload
- Changed all classes within aisquared.config.analytic to accept 'tabular' as an input_type
- Removed aisquared.logging and aisquared.remote from top-level imports
- Added round parameter to Regression postprocesser
- Removed *DocumentPredictor* and *ImagePredictor* classes

- Removed *ChainRendering* class
- Created FilterRendering class
- Altered QUALIFIERS
- Added advanced rendering parameters to rendering objects
- Removed *logging* and *remote* subpackages from top-level *aisquared* import

Version 0.2.1

- Added the S3Connector class to the analytics subpackage, which allows download of an analytic directly from S3
- Updated the documentation and added the docs subdirectory for hosting the documentation on GitHub Pages

• Version 0.2.2

- Fixed bug in to_dict method within ObjectRendering class
- Fixed bug in name of MultiplyValue step
- Fixed bug in datatype checking for text harvester
- Added body_only parameter to TextHarvester
- Added 'underline' to possible badges
- Added threshold_key and threshold_values to relevant rendering classes
- Added *Trim* text preprocessing class
- Added CustomObject in the base package to allow for creation of custom classes
- Added keyword harvesting capabilities
- Added utils subpackage with capabilities to mimic a trained sklearn model
- Small documentation changes
- Changed the required imports for the package to streamline installation process, and created two installation options *aisquared* and *aisquared*[full]

• Version 0.2.3

- Added functionality to add custom preprocessing and postprocessing functions to the model deployment pipeline
- Added all parameter to LocalAnalytic class
- Changed under-the-hood functionality of mimic model function in line with updates to BeyondML
- Altered the ReverseMLWorkflow analytic
- Added the BarChartRendering, ContainerRendering, DashboardReplacementRendering, DoughnutChartRendering, HTMLTagRendering, LineChartRendering, PieChartRendering, SOSRendering, and TableRendering rendering classes
- Added the QueryParameterHarvester harvester class
- Added the *limit* parameter to the TextHarvester class

• Version 0.3.0

- Added type hinting to documentation strings
- Revamped documentation to use Sphinx

• Version 0.3.1

- Changed Python type hints to allow for backwards compatibility with older versions of Python

• Version 0.3.2

- Added functionality to the AISquaredPlatformClient
- Added top_level_kwargs parameter to the CustomObject class
- Added DashboardRendering class
- Removed 'px' from default values in ImageRendering and ObjectRendering classes
- Added functionality for creating, updating, and deleting users to AISquaredPlatformClient
- Added functionality for creating, updating, and delting groups to AISquaredPlatformClient
- Fixed bug related to requiring *auto_run* parameter to be string (fix involves casting as string)
- Altered schemas for different "Chart" Rendering classes to conform to JavaScript standards
- Streamlined the ModelConfiguration class to allow a more functional interface to build .air files
- Updated ContainerRendering class with parameters for position and static_position
- Updated across-the-board functionality of the AISquaredPlatformClient

• Version 0.3.3

- Updated functionality of the AISquaredPlatformClient to interact directly with the platform ALB
- Changed function names in support of change from MANN to BeyondML
- Added documentation surrounding global configuration objects
- Removed redundant additional dependencies

• Version 0.3.4

- Added support for custom CSS strings to appropriate rendering classes
- Refactored AISquaredPlatformClient to import functions from support files
- Fixed documentation errors for the documentation site
- Checked whether responses returned OK status code rather than 200
- Moved CustomObject to aisquared.config from aisquared.base
- Changed endpoint used to list platform users
- Fixed response behaviors where no data was returned from AISquaredPlatformClient

Version 0.3.5

- Changed file_name parameter in ReverseMLWorkflow to file_names
- Added documentation_link parameter to ModelConfiguration class

• Version 0.3.6

- Fixed issue with type checking for *ModelConfiguration* Rendering classes
- Restricted TensorFlow version to below 2.12.0 to prevent import issues
- Added position parameter to WordRendering class
- Changed default CSS styling for rendering classes
- Changed name of all *processor* classes to *processer*

• Version 0.3.7

- Changed schema of the DeployedAnalytic class to include API key management
- Changed JSON schema of Preprocesser classes
- Allowed .keras files to be saved and loaded with the ModelConfiguration and GraphConfiguration
 APIs into .air files
- Relaxed TensorFlow requirements enforced in version 0.3.6

• Version 0.3.8

- Created ChatbotHarvester class
- Created TextRendering class
- Changed location of reference lists of classes to clean up code
- Updated class schemas to ensure compliance with expectations
- Updated test cases

• Version 0.3.9

- Created CustomRendering class
- Changed to full import of CustomObject in aisquared.base subpackage

• Version 0.3.10

- Added DatabricksClient to the aisquared.platform subpackage

• Version 0.3.11

- Updated DeployedModel class configuration to conform to AIRJS
- Updated DatabricksClient class to include update_job function
- Updated custom CSS fields in rendering classes
- Reconfigured ReverseMLWorkflow class
- Added 'User-Agent' to headers for AISquaredPlatformClient and DatabricksClient
- Added *llmlink* as a dependency to the 'full' installation of *aisquared* and added it as a top-level package

PYTHON MODULE INDEX

```
а
                                                                                      aisquared.config.postprocessing, 16
                                                                                      aisquared.config.postprocessing.BinaryClassification,
aisquared, 70
aisquared.base, 4
                                                                                      aisquared.config.postprocessing.MulticlassClassification,
aisquared.base.BaseObject, 3
aisquared.base.css, 4
                                                                                      aisquared.config.postprocessing.ObjectDetection,
aisquared.base.endpoints, 4
aisquared.base.harvesting,4
                                                                                      aisquared.config.postprocessing.Regression,
aisquared.base.platform, 4
aisquared.base.preprocessing, 4
                                                                                      aisquared.config.preprocessing, 25
aisquared.base.rendering, 4
                                                                                      aisquared.config.preprocessing.image, 19
aisquared.base.stages, 4
                                                                                      aisquared.config.preprocessing.image.ImagePreprocessing,
aisquared.config, 44
aisquared.config.analytic, 8
                                                                                      aisquared.config.preprocessing.image.Steps,
aisquared.config.analytic.DeployedAnalytic,4
aisquared.config.analytic.DeployedModel, 5
                                                                                      aisquared.config.preprocessing.tabular, 22
aisquared.config.analytic.LocalAnalytic, 6
                                                                                      aisquared.config.preprocessing.tabular.Steps,
aisquared.config.analytic.LocalModel, 7
aisquared.config.analytic.ReverseMLWorkflow,
                                                                                      aisquared.config.preprocessing.tabular.TabularPreprocessing.
aisquared.config.CustomObject, 41
                                                                                      aisquared.config.preprocessing.text, 25
aisquared.config.feedback, 11
                                                                                      aisquared.config.preprocessing.text.Steps, 22
aisquared.config.feedback.BinaryFeedback, 8
                                                                                      aisquared.config.preprocessing.text.TextPreprocessing,
aisquared.config.feedback.ModelFeedback,9
aisquared.config.feedback.MulticlassFeedback,
                                                                                      aisquared.config.rendering, 40
a is quared. config. feedback. Qualitative Feedback, a is quared. config. rendering. Bar Chart Rendering, and the config. Th
\verb|aisquared.config.feedback.RegressionFeedback|, \verb|aisquared.config.rendering.ContainerRendering|, \\
                                                                                      aisquared.config.rendering.CustomRendering,
aisquared.config.feedback.SimpleFeedback, 11
aisquared.config.GraphConfiguration, 41
                                                                                      aisquared.config.rendering.DashboardRendering,
aisquared.config.harvesting, 14
aisquared.config.harvesting.ChatbotHarvester,
                                                                                      aisquared.config.rendering.DashboardReplacementRendering,
aisquared.config.harvesting.ImageHarvester,
                                                                                      aisquared.config.rendering.DocumentRendering,
aisquared.config.harvesting.InputHarvester,
                                                                                      aisquared.config.rendering.DoughnutChartRendering,
aisquared.config.harvesting.QueryParameterHarvester,
                                                                                      aisquared.config.rendering.FilterRendering,
aisquared.config.harvesting.TextHarvester, 13
                                                                                      aisquared.config.rendering.HTMLTagRendering,
aisquared.config.ModelConfiguration, 42
```

```
33
\verb|aisquared.config.rendering.ImageRendering|, 34
aisquared.config.rendering.LineChartRendering,
aisquared.config.rendering.ObjectRendering,
aisquared.config.rendering.PieChartRendering,
aisquared.config.rendering.SOSRendering, 38
aisquared.config.rendering.TableRendering,38
aisquared.config.rendering.TextRendering, 39
aisquared.config.rendering.utils, 40
aisquared.config.rendering.WordRendering, 39
aisquared.logging, 44
aisquared.platform, 67
aisquared.platform.additional_utils,67
aisquared.platform.AISquaredAPIException, 44
aisquared.platform.AISquaredPlatformClient,
aisquared.platform.crudl, 67
aisquared.platform.DatabricksAPIException, 61
aisquared.platform.DatabricksClient, 61
aisquared.platform.feedback, 67
aisquared.platform.metrics, 67
aisquared.platform.NoResultsFoundError, 67
aisquared.platform.sharing, 67
aisquared.platform.user_group, 67
aisquared.serving, 68
aisquared.serving.deploy_model, 67
aisquared.serving.get_remote_prediction, 68
aisquared.utils, 70
aisquared.utils.utils, 69
```

76 Python Module Index

INDEX

A	module, 4
add_bar_chart() (aisquared.config.rendering.Dashboard method), 28	module, 4
add_container() (aisquared.config.rendering.Dashboard method), 28	drender of the state of the sta
add_doughnut_chart()	aisquared.base.preprocessing
(aisquared.config.rendering.DashboardRendering method), 28	g. <i>DasModula</i> rendering aisquared.base.rendering
<pre>add_html_tag() (aisquared.config.rendering.Dashboardi method), 28</pre>	aisquared.base.stages
<pre>add_line_chart() (aisquared.config.rendering.Dashboa</pre>	aisquared.config
<pre>add_node() (aisquared.config.GraphConfiguration.Graph</pre>	aisquared.config.analytic
<pre>add_pie_chart() (aisquared.config.rendering.Dashboard</pre>	aisquared.config.analytic.DeployedAnalytic
<pre>add_question() (aisquared.config.feedback.ModelFeedback method), 9</pre>	aisquared.config.analytic.DeployedModel
add_question() (aisquared.config.feedback.QualitativeFoundation), 10	aisquared.config.analytic.LocalAnalytic
<pre>add_step() (aisquared.config.preprocessing.image.Image</pre>	Preprocessing.imagePreprocesser aisquared.config.analytic.LocalModel
<pre>add_step() (aisquared.config.preprocessing.tabular.Tabu method), 21</pre>	aisquared.config.analytic.ReverseMLWorkflow
<pre>add_step() (aisquared.config.preprocessing.text.TextPrep method), 24</pre>	aisquared.config.CustomObject
<pre>add_table() (aisquared.config.rendering.DashboardRend</pre>	aisquared.config.feedback
<pre>add_users_to_group()</pre>	module, 11
method) 15	saisquared confignfeedback.BinaryFeedback module, 8
AddValue (class in aisquared.config.preprocessing.image.S	module, 9
aisquared	aisquared.config.feedback.MulticlassFeedback
module, 70	module, 10
aisquared.base module,4	<pre>aisquared.config.feedback.QualitativeFeedback module, 10</pre>
aisquared.base.BaseObject	aisquared.config.feedback.RegressionFeedback
module, 3	module, 11
aisquared.base.css	aisquared.config.feedback.SimpleFeedback
module, 4	module, 11
aisquared.base.endpoints	aisquared.config.GraphConfiguration

module, 41	module, 28
aisquared.config.harvesting module, 14	<pre>aisquared.config.rendering.DashboardReplacementRendering module, 29</pre>
aisquared.config.harvesting.ChatbotHarvester	
module, 11	module, 29
<pre>aisquared.config.harvesting.ImageHarvester module, 12</pre>	<pre>aisquared.config.rendering.DoughnutChartRendering module, 30</pre>
aisquared.config.harvesting.InputHarvester	aisquared.config.rendering.FilterRendering
module, 12	module, 32
aisquared.config.harvesting.QueryParameterHar	væistærared.config.rendering.HTMLTagRendering
module, 13	module, 33
<pre>aisquared.config.harvesting.TextHarvester module, 13</pre>	<pre>aisquared.config.rendering.ImageRendering module, 34</pre>
aisquared.config.ModelConfiguration	aisquared.config.rendering.LineChartRendering
module, 42	module, 35
aisquared.config.postprocessing	aisquared.config.rendering.ObjectRendering
module, 16	module, 36
aisquared.config.postprocessing.BinaryClassif	
module, 14	module, 37
aisquared.config.postprocessing.MulticlassCla	
module, 15	module, 38
aisquared.config.postprocessing.ObjectDetection	
module, 15	module, 38
aisquared.config.postprocessing.Regression	aisquared.config.rendering.TextRendering
module, 16	module, 39
aisquared.config.preprocessing	aisquared.config.rendering.utils
module, 25	module, 40
aisquared.config.preprocessing.image	aisquared.config.rendering.WordRendering
module, 19	module, 39
aisquared.config.preprocessing.image.ImagePre	pariosanassainenda. logging
module, 16	module, 44
aisquared.config.preprocessing.image.Steps	aisquared.platform
module, 17	module, 67
aisquared.config.preprocessing.tabular	aisquared.platform.additional_utils
module, 22	module, 67
aisquared.config.preprocessing.tabular.Steps	aisquared.platform.AISquaredAPIException
module, 19	module, 44
aisquared.config.preprocessing.tabular.Tabula	raPirsapurancedsspihagtform.AISquaredPlatformClient
module, 21	module, 45
aisquared.config.preprocessing.text	aisquared.platform.crudl
module, 25	module, 67
aisquared.config.preprocessing.text.Steps	aisquared.platform.DatabricksAPIException
module, 22	module, 61
aisquared.config.preprocessing.text.TextPrepro	oaciessquianged.platform.DatabricksClient
module, 24	module, 61
aisquared.config.rendering	aisquared.platform.feedback
module, 40	module, 67
aisquared.config.rendering.BarChartRendering	aisquared.platform.metrics
module, 25	module, 67
aisquared.config.rendering.ContainerRendering	
module, 26	module, 67
aisquared.config.rendering.CustomRendering	aisquared.platform.sharing
module, 27	module, 67
aisquared.config.rendering.DashboardRendering	aisquared.platform.user_group

module, 67		14		
aisquared.serving	BinaryF	eedback	(class	in
module, 68		aisquared.config.feedbo	ack.BinaryFeedback)	, 8
aisquared.serving.deploy_model	body_ke	y (aisquared.config.ana	lytic.DeployedModel.	DeployedModel
module, 67		property), 6		
<pre>aisquared.serving.get_remote_prediction</pre>	body_on	ly (aisquared.config.ha	rvesting.TextHarveste	r.TextHarvester
module, 68		property), 14		
aisquared.utils	_			
module, 70	С			
aisquared.utils.utils	can_tog	gle(aisquared.config.re	endering.SOSRenderi	ng.SOSRendering
module, 69	_ 5	property), 38	O .	0
AISquaredAPIException, 44	Chatbot	Harvester	(class	in
AISquaredPlatformClient (class in		aisquared.config.harve	sting.ChatbotHarvest	er).
a is quared. plat form. A IS quared Plat form Client),		11		- //
45	classes	(aisquared.config.rende	ering.DocumentRende	ring.DocumentRend
$\verb"all" (a is quared. config. analytic. Local Analytic. Local Analytic. Local Analytic. Analyti$	c	property), 30		
property), 6	classes	(aisauared.config.rende	ring.ImageRendering	.ImageRendering
$\verb"analytic" (a is quared. config. Model Configuration. Model Configuration and all the configuration and the$	nfiguratio	Pproperty), 34		
property), 43		(aisquared.config.rende	ering.WordRendering.	WordRendering
$\verb"analytic_dict" (a is quared. config. Model Configuration. Model Configuration and the configuration of the con$	odelConfig	Higherty). 40		,, e, artenae, m.
property), 43		isquared.config.preproc	essino image Stens Ca	onvertToColor
$anchor_selector (\it ais quared.config. rendering. Dashboard) and the configuration of the co$	lReplacem	entRendering.Dashboa	rdReplacementRende	ring
property), 29		isquared.config.renderir		
api_key_header_name	COIOI (a)	property), 34	ig.imagerenaering.in	magenenaering
(aisquared.config.analytic.DeployedAnalytic.Dep	lexadAngl	Migared config renderiv	no OhiectRenderino ()hiectRendering
property), 5	CDIOI (a)	property), 36	ig.objectivenaering.e	objectivenaering
$\verb"api_key_prefix" (a is quared. config. analytic. Deployed Analytic.$	lytia.Deple	yedAnalytionfia nrenro	cessina tahular Stens	DronColumn
property), 5	-COTUME (property), 19	cessing.idolidi.sieps	DropCommi
${\tt attributes} \ (a is quared. config. harvesting. Query Parameter)$	Hanvester	QueryParameterHarve	St&Ksing tahular Stens	OneHot
property), 13	COTUME	property), 20	cessing.idouidi.sicps	Onciloi
$\verb"auto_run" (a is quared. config. Graph Configuration. Graph Configuration and Con$	nfiguratio	property), 20 Naisauared confia nrenv	rocessina tahular Sten	s MinMax
property), 41	COLUMNIS	property), 20	ocessing.iabuiar.siep	S.WIMMIAA
$\verb"auto_run" (a is quared. config. Model Configuration. Model Configuration and the configuration of the configur$	nfiguratio	property), 20 Naisauared confia nrenv	rocessina tahular Sten	s 7Score
property), 43	COLUMNIS	property), 21	ocessing.iabuiar.siep	s.Zscore
r · r· · · · · · · ·	comnile	() (aisquared.config.Gr	ranhConfiguration Gr	anhConfiguration
В	Compile	method), 42	apriconjigaranon.or	apheonjiguranon
badge_color(aisquared.config.rendering.ImageRendering	domnio Ro	· · · · · · · · · · · · · · · · · · ·	odelConfiguration Ma	delConfiguration
property), 34	S A DIME INC	method), 43	naerconjigaranon.me	aciconjiguration
badge_color(aisquared.config.rendering.ObjectRenderin	α Ohh÷æ÷R		(class	in
property), 36	gconjam	aisquared.config.rende	•	
badge_color(aisquared.config.rendering.WordRendering	WordRon		ring.ComumerKende	ring),
property), 40		_html (aisquared.config	a renderina CustomRi	onderina CustomRen
badge_shape(aisquared.config.rendering.WordRendering			g.renuering.Customic	endering.Customicen
property), 40		_key (aisquared.config.	rendering WordRend	erina WordRenderin
BarChartRendering (class in	Concent	property), 40	rendering. WordKende	ering. WordKendering
aisquared.config.rendering.BarChartRendering),	content		nfia renderina Custon	nRandarina Custom
25	Concent	property), 27	ijig.rendering.cusion	inendering. Cusionis
base_url (aisquared.platform.AISquaredPlatformClient.A	I Sont matt	* * * · · ·	Ga randarina Custom)	Randarina Custom Ra
property), 45	почиский	property), 27	ig.rendering.Cusiomi	tenuering. Customite
base_url (aisquared.platform.DatabricksClient.Databrick	d'dinment		(class	in
property), 61	DESTRUKT L	aisquared.config.prepro	`	ııı
BaseObject (class in aisquared.base.BaseObject), 3		22	occasing.ieai.sieps),	
	Convert		(class	in
aisquared.config.postprocessing.BinaryClassifica		aisquared.config.prepro	`	
aisquarea.conjig.posiprocessing.binaryClassifica	mon),	ausquarea.conjig.prepre	occssing.inuge.sieps,	,

	17			Deploye	dModel	(class	in
Convert	ToVocabulary	(class	in	Deploye	aisquared.config.analy	`	
	aisquared.config.prepr	`			5	····- ·p · · · / · · · · · · · · · / ,	
	22	0 1 //		descrip	tion(aisquared.config.	GraphConfiguration.	GraphConfiguration
create_	compute() (aisquared.	platform.Databricks (Client			1 00	1 00
	method), 62				tion (aisquared.config.	ModelConfiguration.1	ModelConfiguration
create_	group() (aisquared.pla	atform.AISquaredPlat	tform	Client.AIS	qvuaqeelPy qtf o 3rmClient		
	method), 45				(aisquared.config.rende	ering.ContainerRende	ring.ContainerRende
create_	_job() (aisquared.platfo	orm.DatabricksClient	.Data				
	method), 62			DivideV		class	in
create_	served_model()				aisquared.config.prepr	ocessing.image.Steps)	,
	(aisquared.platform.Da	atabricksClient.Datal	bricks		17		
	method), 62	C AIG IDL C			tation_link(aisquar	ed.config.GraphConfig	guration.GraphConft
create_	user() (aisquared.plat	form.AISquaredPlatfo	ormC	_		. J C . M . J . IC C	
CustomC	method), 46	(al a a a			tation_link(aisquar	ea.config.MoaeiConfig	guranon.MoaetConjiş
CustomC	aisquared.config.Custo	(class	in		property), 43 tRendering	(alana	in
CustomE	aisquarea.conjig.Cusio Rendering	(class	in	Documen	aisquared.config.rende	(class	in ring)
Cuscollin	aisquared.config.rende	(29	ring.DocumeniKenaei	ing),
	27	ring.Customicenaerti	ις),	documen	ts (aisquared.config.re	ndering DocumentRen	dering DocumentRei
	21				property), 30	ider ing. Documentiten	acring.Bocumentic
D					tChartRendering	(class	in
Dashboa	rdRendering	(class	in	3	aisquared.config.rende	*	Rendering),
	aisquared.config.rende	`		·).	30	0 0	0//
	28	O	Ü		d_from_workspace()		
Dashboa	rdReplacementRende	ring (class	in		(aisquared.platform.Da	atabricksClient.Datab	ricksClient
	aisquared.config.rende	ring.DashboardReplo	асет	entRenderi	moothod), 64		
	29			DropCol	umn (class in aisquared.	config.preprocessing.1	abular.Steps),
	cksAPIException, 61				19		
Databri	.cksClient	(class	in	E			
	aisquared.platform.Da						
delete_	compute() (aisquared.)	platform.Databricks(Elient			vesting.InputHarveste	r.InputHarvester
1.1	method), 63				property), 12	C M 11C C C	M LIC C .:
derete_	_from_workspace() (aisquared.platform.Do	atahwiakaCliant Datal	hwi aka		k_dict (aisquared.con	ng.MoaeiConпgurano	n.MoaetConfigurano
	method), 63	iiabricksCiieni.Daiai	oricks		property), 43 k_steps(aisquared.co	nfia ModelConfigurati	on ModelConfigurati
dalata	_group() (aisquared.pla	utform AISquaradPlan	tform			njig.ModeiConjiguraii	on.ModerConjiguran
uerete_	method), 47	ujorm.Aisquarear tai	jorni		gnageanyageanCheni endering	(class	in
delete	_job() (aisquared.platfo	orm DatabricksClient	.Data				
	method), 63				32	,g.1e.11e.1ue.1g)	,
delete_	model() (aisquared.pla	atform.AISquaredPlat	tform	Cfileang, sA (8)	isiajaucerdeEllaofiofirm & direvets t	ing.TextHarvester.Text	Harvester
	method), 47			- `	property), 14		
delete_	registered_model()			font_co	lor (aisquared.config.r	endering.ImageRende	ring.ImageRendering
	(aisquared.platform.De	atabricksClient.Datal	bricks	Client	property), 34		
	method), 63			font_co	${f lor}$ (ais quared. config.r	endering.ObjectRende	ring.ObjectRenderin
delete_	_served_model()				property), 36		
	(aisquared.platform.De	atabricksClient.Datal	bricks	Eloievi t_si		ndering.ImageRenderi	ing.ImageRendering
	method), 63				property), 34		
delete_	user() (aisquared.plat	form.AISquaredPlatfo	ormC	liEcono.tA_IS iyi		ndering.ObjectRender	ing.ObjectRendering
a 3	method), 47	·	, ,		property), 36		
aep1oy_	•	(in mod	iule	G			
Donlar	aisquared.serving.depl	•		_			
лертоде	edAnalytic aisquared.config.analy	(class tic.DeployedAnalytic	ın), 4	get_fil	enames()(<i>aisquared.c</i> method),42	onfig.GraphConfigura	tion.GraphConfigura

```
get_group() (aisquared.platform.AISquaredPlatformClieni_calSisquucedPlatforing.CustomRendering.CustomRendering
                                                         method), 48
                                                                                                                                                                                                                                                                                                                                                                                                                           property), 28
get_group_id_by_name()
                                                                                                                                                                                                                                                                                                                                                                  ImageHarvester
                                                           (aisquared.platform.AISquaredPlatformClient.AISquaredPlatfixquaGeiknonfig.harvesting.ImageHarvester),
                                                          method), 48
get_model() (aisquared.platform.AISquaredPlatformClienIndSqRunephPdatfosseClient
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        in
                                                         method), 49
                                                                                                                                                                                                                                                                                                                                                                                                                            aisquared.config.preprocessing.image.ImagePreprocessing),
get_model() (in module aisquared.utils.utils), 69
                                                                                                                                                                                                                                                                                                                                                                                                                              16
 get_model_filenames()
                                                                                                                                                                                                                                                                                                                                                                  ImageRendering
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         in
                                                          (aisquared.config.ModelConfiguration.ModelConfiguration aisquared.config.rendering.ImageRendering),
                                                         method), 43
get_model_id_by_name()
                                                                                                                                                                                                                                                                                                                                                                  include_probability
                                                          (aisquared.platform.AISquaredPlatformClient.AISquaredPlatfixqualiethtonfig.rendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering
                                                         method), 49
                                                                                                                                                                                                                                                                                                                                                                                                                           property), 30
get_remote_prediction()
                                                                                                                                                                                                                                                                                                       module include_probability
                                                                                                                                                                                                                                   (in
                                                          aisquared.serving.get_remote_prediction),
                                                                                                                                                                                                                                                                                                                                                                                                                            (aisquared.config.rendering.ImageRendering.ImageRendering
                                                                                                                                                                                                                                                                                                                                                                                                                           property), 34
get_role_id_by_role_name()
                                                                                                                                                                                                                                                                                                                                                                  include_probability
                                                          (aisquared.platform.AISquaredPlatformClient.AISquaredPlatfixqn@dieenconfig.rendering.ObjectRendering.ObjectRendering
                                                                                                                                                                                                                                                                                                                                                                                                                           property), 36
get_user() (aisquared.platform.AISquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient.AdSquaredPlatformClient
                                                         method), 50
                                                                                                                                                                                                                                                                                                                                                                                                                           property), 5
get_user_id_by_name()
                                                                                                                                                                                                                                                                                                                                                                  input_type (aisquared.config.analytic.DeployedModel.DeployedModel
                                                          (aisquared.platform.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredPlatformClient.AISquaredP
                                                         method), 50
                                                                                                                                                                                                                                                                                                                                                                  input_type (aisquared.config.analytic.LocalAnalytic.LocalAnalytic
GraphConfiguration
                                                                                                                                                                                                                        (class
                                                                                                                                                                                                                                                                                                                                      in
                                                                                                                                                                                                                                                                                                                                                                                                                           property), 6
                                                          aisquared.config.GraphConfiguration), 41
                                                                                                                                                                                                                                                                                                                                                                  input\_type (aisquared.config.analytic.LocalModel.LocalModel
                                                                                                                                                                                                                                                                                                                                                                                                                           property), 7
Н
                                                                                                                                                                                                                                                                                                                                                                  input_type (aisquared.config.harvesting.InputHarvester.InputHarvester
harvester_dict(aisquared.config.ModelConfiguration.ModelConfiguration), 12
                                                                                                                                                                                                                                                                                                                                                                  InputHarvester
                                                         property), 43
harvesting\_steps (a is quared. config. Model Configuration. Model Configuration Config. harvesting. In put Harvester), and the configuration of the config
                                                         property), 43
{\bf header} \ (a is quared. config. analytic. Deployed Analytic. Deployed Analytic
                                                         property), 5
\textbf{headers} (\textit{aisquared.config.analytic.Deployed Model.Deploy} \textbf{\textit{sam}} (\textit{aisquared.config.rendering.Filter Rendering.Filter Filter Filte
                                                                                                                                                                                                                                                                                                                                                                                                                            property), 32
                                                         property), 6
{\tt headers} \ (a is quared. platform. AIS quared Platform Client. AIS quared Platform Client) \\
                                                         property), 51
headers (aisquared.platform.DatabricksClient.DatabricksClientel (aisquared.config.rendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRenderi
                                                         property), 64
                                                                                                                                                                                                                                                                                                                                                                                                                           property), 27
height (aisquared.config.rendering.ContainerRendering.ContainerRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRendering.DashboardReplacementRen
                                                         property), 27
                                                                                                                                                                                                                                                                                                                                                                                                                            property), 29
how (aisquared.config.harvesting.ImageHarvester.ImageHarlatelt (aisquared.config.rendering.SOSRendering.SOSRendering
                                                         property), 12
                                                                                                                                                                                                                                                                                                                                                                                                                           property), 38
\textbf{how} \ (a is quared. config. harvesting. \textit{TextHarvester}. \textit{TextHarveste} \textbf{\&abel\_map} \ (a is quared. config. \textit{feedback}. \textit{BinaryFeedback}. \textit{BinaryFeedback}. \textit{Config. feedback}) \ (a is quared. config. \textit{feedback}. \textit{BinaryFeedback}. \textit{Config. feedback}) \ (a is quared. config. \textit{feedback}. \textit{BinaryFeedback}. \textit{Config. feedback}) \ (a is quared. config. \textit{feedback}. \textit{BinaryFeedback}. \textit{Config. feedback}) \ (a is quared. config. \textit{feedback}. \textit{BinaryFeedback}. \textit{Config. feedback}. \textit{Config. feedback}) \ (a is quared. config. \textit{feedback}. \textit{Config. feedback}. \textit
                                                         property), 14
                                                                                                                                                                                                                                                                                                                                                                                                                           property), 9
HTMLTagRendering
                                                                                                                                                                                                                (class
                                                                                                                                                                                                                                                                                                                                                          label_map(aisquared.config.feedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedback.MulticlassFeedb
                                                         aisquared.config.rendering.HTMLTagRendering),
                                                                                                                                                                                                                                                                                                                                                                                                                           property), 10
                                                           33
                                                                                                                                                                                                                                                                                                                                                                  label_map (aisquared.config.postprocessing.BinaryClassification.BinaryC
                                                                                                                                                                                                                                                                                                                                                                                                                           property), 14
                                                                                                                                                                                                                                                                                                                                                                label_map (aisquared.config.postprocessing.MulticlassClassification.Mult
id (aisquared.config.rendering.ContainerRendering.ContainerRenderproperty), 15
                                                         property), 27
```

label_map(aisquared.config.postprocessing.ObjectDetection.Co	
	gin() (aisquared.platform.AISquaredPlatformClient.AISquaredPlatform
length (aisquared.config.preprocessing.text.Steps.PadSequence	
	gin() (aisquared.platform.DatabricksClient.DatabricksClient
${\tt limit} (a is quared. config. harvesting. \textit{TextHarvester}. $	
	percase (aisquared.config.preprocessing.text.Steps.ConvertToCase
LineChartRendering (class in	property), 22
aisquared.config.rendering.LineChartRendering), M	
list_compute() (aisquared.platform.DatabricksClient.Datab	ricksGhiered.config.postprocessing.Regression.Regression
list_group_users() (aisquared.platform.AISquaredPlatform	property), 16 <u>Client Al Sangrad Plattory</u> Charvesting. Chatbot Harvester. Chatbot Harve
method), 51	property), 12
list_groups() (aisquared.platform.AISquaredPlatformClient	Aleagered all of the season of the state of the season of
method), 51	property) 12
list_jobs() (aisquared.platform.DatabricksClient.Databricks	sClised (aisquared.config.preprocessing.text.Steps.ConvertToVocabular
method), 64	property), 22
<pre>list_model_feedback() max</pre>	s (aisquared.config.preprocessing.tabular.Steps.MinMax
(aisquared.platform.AISquaredPlatformClient.AISqua	redPlqtfqrppClient()
1 1) 50	uns (aisquared.config.preprocessing.tabular.Steps.ZScore
<pre>list_model_prediction_feedback()</pre>	property), 21
(aisquared.platform.AISquaredPlatformClient.AISque	THOH (lattifitureli.cumfig.preprocessing.image.Steps.Resize
method), 52	property), 18
	nic_model() (in module aisquared.utils.utils), 69 WedsquateranChigg!postprocessing.Regression.Regression
method), 53	
	property), 16 Client AlS mared Platform Client
list_model_users() (aisquared.platform.AISquaredPlatform	Max (Class will squared. Config. preprocessing.tabular. Steps),
method), 53	19
list_models() (aisquared.platform.AISquaredPlatformClient	หรับสิเรียนิสายสีเซียกที่เชื่อใจเยื่อใหญ่ เลือนและ Steps. MinMax
method), 54	property), 20
<pre>list_prediction_feedback() mlf</pre>	${\tt flow_token}\ (a is quared. config. Graph Configuration. Graph Configuration)$
$(a is {\it quared.plat} for {\it m.AIS} quare {\it dPlat} for {\it mClient.AIS} quare {\it dPlat} for {\it m.AIS} quare {\it d.AIS} quare {\it d.AIS} for {\it m.AIS} for {\it m.AIS} for {\it m.AIS} for {\it m.AIS} quare {\it d.AIS} for {\it m.AIS} for {\it m.AIS$	uredPlatfarmGjient2
method), 54 mlf	${\tt Flow_token}$ (a is quared. config. Model Configuration. Model Configuration)
<pre>list_registered_models()</pre>	property), 43
(aisquared.platform.DatabricksClient.Databricks Glie	Mow_uri (aisquared.config.GraphConfiguration.GraphConfiguration
method), 64	property), 42
<pre>list_roles() (aisquared.platform.AISquaredPlatformCliept.s</pre>	YSauared Platfouned Les Mig. Model Configuration. Model Configuration
method), 54	property), 43
	Flow_user (aisquared.config.GraphConfiguration.GraphConfiguration
(aisquared.platform.DatabricksClient.DatabricksClie	nt property), 42
	property), 12
list_user_usage_metrics()	Flow_user (aisquared.config.ModelConfiguration.ModelConfiguration
(aisquared.platform.AISquaredPlatformClient.AISquaredP	property), 43
method), 55	`
list_users() (aisquared.platform.AISquaredPlatformClienter)	aisquared.config.ModelConfiguration), 42
method), 55	aisquared.config.feedback.ModelFeedback), 9
list_workspace() (aisquared.platform.DatabricksClient.Plat	
method), 65	aisquared, 70
load_beyondml_model() (in module	aisquared.base,4
aisquared.serving.deploy_model), 68	aisquared.base.BaseObject,3
LocalAnalytic (class in	aisquared.base.css,4
a is quared. config. analytic. Local Analytic),	aisquared.base.endpoints,4
6	aisquared.base.harvesting, 4
${\tt Local Model}\ ({\it class in ais quared. config. analytic. Local Model}),$	aisquared.base.platform, 4

```
aisquared.base.preprocessing, 4
                                               aisquared.config.preprocessing.image.Steps,
aisquared.base.rendering, 4
aisquared.base.stages, 4
                                               aisquared.config.preprocessing.tabular,
aisquared.config, 44
aisquared.config.analytic, 8
                                               aisquared.config.preprocessing.tabular.Steps,
aisquared.config.analytic.DeployedAnalytic,
                                               aisquared.config.preprocessing.tabular.TabularPreproce
aisquared.config.analytic.DeployedModel,
                                               aisquared.config.preprocessing.text, 25
aisquared.config.analytic.LocalAnalytic,
                                               aisquared.config.preprocessing.text.Steps,
aisquared.config.analytic.LocalModel, 7
                                               aisquared.config.preprocessing.text.TextPreprocessing,
aisquared.config.analytic.ReverseMLWorkflow,
                                               aisquared.config.rendering, 40
aisquared.config.CustomObject, 41
                                               aisquared.config.rendering.BarChartRendering,
aisquared.config.feedback, 11
aisquared.config.feedback.BinaryFeedback,
                                               aisquared.config.rendering.ContainerRendering,
aisquared.config.feedback.ModelFeedback,
                                               aisquared.config.rendering.CustomRendering,
aisquared.config.feedback.MulticlassFeedback, aisquared.config.rendering.DashboardRendering,
aisquared.config.feedback.QualitativeFeedback,aisquared.config.rendering.DashboardReplacementRenderi
aisquared.config.feedback.RegressionFeedback, aisquared.config.rendering.DocumentRendering,
aisquared.config.feedback.SimpleFeedback,
                                               aisquared.config.rendering.DoughnutChartRendering,
aisquared.config.GraphConfiguration, 41
                                               aisquared.config.rendering.FilterRendering,
aisquared.config.harvesting, 14
aisquared.config.harvesting.ChatbotHarvester, aisquared.config.rendering.HTMLTagRendering,
aisquared.config.harvesting.ImageHarvester,
                                               aisquared.config.rendering.ImageRendering,
aisquared.config.harvesting.InputHarvester,
                                               aisquared.config.rendering.LineChartRendering,
aisquared.config.harvesting.QueryParameterHarvæist@prared.config.rendering.ObjectRendering,
aisquared.config.harvesting.TextHarvester,
                                               aisquared.config.rendering.PieChartRendering,
aisquared.config.ModelConfiguration, 42
                                               aisquared.config.rendering.SOSRendering,
aisquared.config.postprocessing, 16
aisquared.config.postprocessing.BinaryClassifiacistquoma;ed.config.rendering.TableRendering,
aisquared.config.postprocessing.MulticlassClassmisfquantedonconfig.rendering.TextRendering,
aisquared.config.postprocessing.ObjectDetectiomisquared.config.rendering.utils, 40
                                               aisquared.config.rendering.WordRendering,
aisquared.config.postprocessing.Regression,
                                               aisquared.logging, 44
aisquared.config.preprocessing, 25
                                               aisquared.platform, 67
aisquared.config.preprocessing.image, 19
                                               aisquared.platform.additional_utils, 67
aisquared.config.preprocessing.image.ImagePreproscopszniendg,platform.AISquaredAPIException,
    16
```

```
aisquared.platform.AISquaredPlatformClientP
                                                                                                                                                                                                 pad_character (aisquared.config.preprocessing.text.Steps.PadSequences
                aisquared.platform.crudl, 67
                                                                                                                                                                                                                                 property), 23
               a is quared. platform. Databricks APIException, \\ pad\_location (a is quared. config. preprocessing. text. Steps. PadSequences) \\ a is quared. \\ config. preprocessing. \\ text. Steps. PadSequences \\ text. \\ config. \\ preprocessing. \\ text. \\ config. \\ config. \\ text. \\ config. \\ text. \\ config. \\ text. \\ config. \\ config. \\ text. \\ config. \\ text. \\ config. \\ text. \\ config. \\ config. \\ text. \\ config. \\ text. \\ config. \\ text. \\ config. \\ config. \\ text. \\ config. \\ text. \\ config. \\ text. \\ config. \\ config. \\ text. \\ config. \\ text. \\ config. \\ text. \\ config. \\ config. \\ text. \\ config. \\ text. \\ config. \\ text. \\ config. \\ config. \\ text. \\ config. \\ text. \\ config. \\ text. \\ config. \\ config. \\ text. \\ config. \\ text. \\ config. \\ text. \\ config. \\ config. \\ text. \\ config. \\ text. \\ config. \\ text. \\ config. \\ config. \\ text. \\ config. \\ text. \\ config. \\ text. \\ config. \\ config. \\ text. \\ config. \\ text. \\ config. \\ text. \\ config. \\ config. \\ text. \\ config. \\ text. \\ config. \\ text. \\ config. \\ config. \\ text. \\ config. \\ text. \\ config. \\ text. \\ config. \\ config. \\ text. \\ config. \\ text. \\ config. \\ text. \\ config. \\ config. \\ text. \\ config. \\ text. \\ config. \\ text. \\ config. \\ config. \\ text. \\ config. \\ text. \\ config. \\ text. \\ config. \\ config. \\ text. \\ config. \\ text. \\ config. \\ text. \\ config. \\ config. \\ text. \\ config. \\ text. \\ config. \\ text. \\ config. \\ c
                                                                                                                                                                                                                                 property), 23
                aisquared.platform.DatabricksClient, 61
                                                                                                                                                                                                 PadSequences
                aisquared.platform.feedback, 67
                                                                                                                                                                                                                                 aisquared.config.preprocessing.text.Steps),
                aisquared.platform.metrics, 67
                                                                                                                                                                                                                                  23
                aisquared.platform.NoResultsFoundError,
                                                                                                                                                                                                 password (aisquared.platform.AISquaredPlatformClient.AISquaredPlatfor
                                                                                                                                                                                                                                 property), 56
                aisquared.platform.sharing, 67
                                                                                                                                                                                                 \verb"path" (a is quared. config. analytic. Local Analytic. Local Analytic
                aisquared.platform.user_group, 67
                                                                                                                                                                                                                                 property), 6
                aisquared.serving, 68
                                                                                                                                                                                                 {\tt path}~(a is quared. config. analytic. Local Model. Local Model
                aisquared.serving.deploy_model, 67
                                                                                                                                                                                                                                 property), 7
                aisquared.serving.get_remote_prediction,
                                                                                                                                                                                                 PieChartRendering
                                                                                                                                                                                                                                                                                                                     (class
                                68
                                                                                                                                                                                                                                 aisquared.config.rendering.PieChartRendering),
                aisquared.utils, 70
                aisquared.utils.utils, 69
                                                                                                                                                                                                 placement (aisquared.config.rendering.ImageRendering.ImageRendering
MulticlassClassification
                                                                                                                                                                                   in
                                                                                                                                   (class
                                                                                                                                                                                                                                 property), 34
                               aisquared.config.postprocessing.MulticlassClassification (aisquared.config.rendering.ObjectRendering.ObjectRendering
                                                                                                                                                                                                                                 property), 36
MulticlassFeedback
                                                                                                                      (class
                                                                                                                                                                                                 position (aisquared.config.rendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRendering.ContainerRende
                                aisquared.config.feedback.MulticlassFeedback),
                                                                                                                                                                                                                                 property), 27
                                                                                                                                                                                                 {\tt position}\ (a is quared. config. rendering. WordRendering. WordRendering
MultiplyValue
                                                                                                            (class
                                                                                                                                                                                   in
                                                                                                                                                                                                                                 property), 40
                                aisquared.config.preprocessing.image.Steps),
                                                                                                                                                                                                 postprocesser_dict(aisquared.config.ModelConfiguration.ModelConfig
                                                                                                                                                                                                                                 property), 44
                                                                                                                                                                                                 postprocessing_steps
Ν
                                                                                                                                                                                                                                 (aisquared.config.ModelConfiguration.ModelConfiguration
name (aisquared.config.GraphConfiguration.GraphConfiguration
                                                                                                                                                                                                                                 property), 44
                               property), 42
                                                                                                                                                                                                 prediction_key (aisquared.config.rendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.DocumentRendering.
{\tt name}\ (a is quared. config. Model Configuration. Model Configuration
                                                                                                                                                                                                                                 property), 30
                               property), 44
                                                                                                                                                                                                 prediction_value_key
NoResultsFoundError, 67
                                                                                                                                                                                                                                 (aisquared.config.rendering.TextRendering.TextRendering
                                                                                                                                                                                                                                 property), 39
O
                                                                                                                                                                                                 preprocesser\_dict(aisquared.config.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfigura
ObjectDetection
                                                                                                                (class
                                                                                                                                                                                   in
                                                                                                                                                                                                                                 property), 44
                                a is quared. config. postprocessing. Object Detection) {\tt preprocessing\_steps}
                                                                                                                                                                                                                                 (a is quared. config. Model Configuration. Model Configuration\\
ObjectRendering
                                                                                                                (class
                                                                                                                                                                                                                                 property), 44
                                aisquared.config.rendering.ObjectRendering),
                                                                                                                                                                                                 preserve_aspect_ratio
                                                                                                                                                                                                                                 (aisquared.config.preprocessing.image.Steps.Resize
OneHot (class in aisquared.config.preprocessing.tabular.Steps),
                                                                                                                                                                                                                                 property), 18
                                                                                                                                                                                                 probability_key (aisquared.config.rendering.DocumentRendering.Docu
oov_character(aisquared.config.preprocessing.text.Steps.ConvertToVoochular30
                               property), 22
orientation (aisquared.config.rendering.ContainerRendering.ContainerRendering
                               property), 27
                                                                                                                                                                                                 qualifier (aisquared.config.rendering.FilterRendering.FilterRendering
owner (aisquared.config.GraphConfiguration.GraphConfiguration
                                                                                                                                                                                                                                 property), 32
                               property), 42
                                                                                                                                                                                                 QualitativeFeedback
                                                                                                                                                                                                                                                                                                                          (class
owner (aisquared.config.ModelConfiguration.ModelConfiguration
                                                                                                                                                                                                                                 aisquared.config.feedback.QualitativeFeedback),
                               property), 44
                                                                                                                                                                                                 query_keys (aisquared.config.harvesting.QueryParameterHarvester.Query
                                                                                                                                                                                                                                 property), 13
```

```
query_selector (aisquared.config.rendering.ContainerRendering.ContainerRendering).
                                                                                                                                                                                                                                                      SimpleFeedback
                                        property), 27
                                                                                                                                                                                                                                                                                                                                                                                                    (class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           in
query_selector(aisquared.config.rendering.CustomRendering.CustomRenderivogfig.feedback.SimpleFeedback),
                                        property), 28
QueryParameterHarvester
                                                                                                                                                                    (class
                                                                                                                                                                                                                                   in size (aisquared.config.preprocessing.image.Steps.Resize
                                        aisquared.config.harvesting.QueryParameterHarvester),
                                                                                                                                                                                                                                                                                              property), 18
                                                                                                                                                                                                                                                       SOSRendering
                                                                                                                                                                                                                                                                                                                                                                                             (class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           in
                                                                                                                                                                                                                                                                                                 aisquared.config.rendering.SOSRendering), 38
R
                                                                                                                                                                                                                                                      source (aisquared.config.rendering.FilterRendering.FilterRendering
regex (aisquared.config.harvesting.TextHarvester.TextHarvester
                                                                                                                                                                                                                                                                                               property), 32
                                                                                                                                                                                                                                                       {\tt split\_sentences} (aisquared.config.preprocessing.text.Steps.Tokenize
                                        property), 14
Regression (class in aisquared.config.postprocessing.Regression), property), 24
                                                                                                                                                                                                                                                       \verb|split_words| (a is quared. config.preprocessing. text. Steps. To kenize
RegressionFeedback
                                                                                                                                                                                                                                                                                               property), 24
                                                                                                                                                       (class
                                         property), 42
{\tt remove\_digits} (a is quared. config. preprocessing. text. Steps. \textbf{Reagn} \& \textbf{Chaptareed} : son fig. Model Configuration. Model Configuration text. Steps. \textbf{Reagn} \& \textbf{Chaptareed} : son fig. Model Configuration text. Steps. \textbf{Reagn} \& \textbf{Chaptareed} : son fig. Model Configuration text. Steps. \textbf{Reagn} \& \textbf{Chaptareed} : son fig. Model Configuration text. Steps. \textbf{Reagn} \& \textbf{Chaptareed} : son fig. Model Configuration text. Steps. \textbf{Reagn} \& \textbf{Chaptareed} : son fig. Model Configuration text. Steps. \textbf{Reagn} & \textbf{Chaptareed} : son fig. Model Configuration text. Steps. \textbf{Reagn} & \textbf{Chaptareed} : son fig. Model Configuration text. Steps. \textbf{Reagn} & \textbf{Chaptareed} : son fig. Model Configuration text. Steps. \textbf{Reagn} & \textbf{Chaptareed} : son fig. Model Configuration text. Steps. \textbf{Reagn} & \textbf{Chaptareed} : son fig. Model Configuration text. Steps. \textbf{Reagn} & \textbf{Chaptareed} : son fig. Model Configuration text. Steps. \textbf{Reagn} & \textbf{Chaptareed} : son fig. Model Configuration text. Steps. \textbf{Reagn} & \textbf{Chaptareed} : son fig. Model Configuration text. Steps. \textbf{Chaptareed} : son fig. Model Configuration text. Steps. \textbf{Chaptareed} : son fig. Steps. Steps. \textbf{Chaptareed} : son fig. Steps. Steps. \textbf{Chaptareed} : son fig. Steps. St
                                                                                                                                                                                                                                                                                               property), 44
                                        property), 23
remove_punctuation(aisquared.config.preprocessing.texssept.RehanaClass daisquared.config.preprocessing.text.Steps.ConvertToVo
                                        property), 23
                                                                                                                                                                                                                                                                                               property), 22
remove_users_from_group()
                                                                                                                                                                                                                                                      start_compute() (aisquared.platform.DatabricksClient.DatabricksClient
                                         (aisquared.platform.AISquaredPlatformClient.AISquaredPlanethnet)ient
                                                                                                                                                                                                                                                       static_position(aisquared.config.rendering.ContainerRendering.Conta
                                        method), 56
RemoveCharacters
                                                                                                                                                 (class
                                                                                                                                                                                                                                                                                               property), 27
                                                                                                                                                                                                                                   in
                                                                                                                                                                                                                                                        stds (aisquared.config.preprocessing.tabular.Steps.ZScore
                                         aisquared.config.preprocessing.text.Steps),
                                                                                                                                                                                                                                                                                               property), 21
render_dict (aisquared.config.ModelConfiguration.ModelConfigurationing.Image.ImagePreprocessing.Im
                                                                                                                                                                                                                                                                                               property), 17
                                        property), 44
rendering_steps (aisquared.config.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguration.ModelConfiguratio
                                                                                                                                                                                                                                                                                               property), 24
                                         property), 44
Resize (class in aisquared.config.preprocessing.image.Step.steps (aisquared.config.rendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRendering.DashboardRender
                                                                                                                                                                                                                                                                                               property), 28
result_key (aisquared.config.rendering.WordRendering.WordRendering.WordRendering.de() (aisquared.platform.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.DatabricksClient.Da
                                                                                                                                                                                                                                                                                                method), 66
                                         property), 40
return_key (aisquared.config.analytic.DeployedModel.DeShiptatMatMatlue
                                                                                                                                                                                                                                                                                                                                                                                                (class
                                                                                                                                                                                                                                                                                                 aisquared.config.preprocessing.image.Steps),
                                        property), 6
ReverseMLWorkflow
                                                                                                                                                                                                                                                                                                 18
                                                                                                                                                    (class
                                                                                                                                                                                                                                    in
                                         aisquared.config.analytic.ReverseMLWorkflow),
round (aisquared.config.postprocessing.Regression.RegressTableRendering
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           in
                                        property), 16
                                                                                                                                                                                                                                                                                                aisquared.config.rendering.TableRendering),
run_job() (aisquared.platform.DatabricksClient.DatabricksClient
                                        method), 65
                                                                                                                                                                                                                                                       TabularPreprocesser
                                                                                                                                                                                                                                                                                                                                                                                                                (class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           in
                                                                                                                                                                                                                                                                                                 aisquared.config.preprocessing.tabular.TabularPreprocessing),
S
                                                                                                                                                                                                                                                      test_connection() (aisquared.platform.AISquaredPlatformClient.AISqu
save_default_css()
                                                                                                                                                                                                              module
                                                                                                                                                                                                                                                                                                method), 58
                                         aisquared.config.rendering.utils), 40
secret (aisquared.config.analytic.DeployedAnalytic.DeployedAtharnester
                                                                                                                                                                                                                                                                                                                                                                                                (class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           in
                                                                                                                                                                                                                                                                                                 aisquared.config.harvesting.TextHarvester), 13
                                        property), 5
                                                                                                                                                                                                                                                      TextPreprocesser
                                                                                                                                                                                                                                                                                                                                                                                                        (class
share_model_with_group()
                                         (a is quared. platform. A IS quared Platform Client. A IS quared Platfor
                                        method), 57
                                                                                                                                                                                                                                                       TextRendering
                                                                                                                                                                                                                                                                                                                                                                                                (class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           in
share_model_with_user()
                                         (a is quared. plat form. A IS quared Plat form Client. A IS quared Plat for Management (a is quared plat for m. A IS quared
```

20	1 0 10
39	method), 13
thickness (aisquared.config.rendering.ImageRenderin	unng isquarea.conjig.narvesting.QueryParameterHarvester.QueryI method), 13
property), 34 thickness (aisquared.config.rendering.ObjectRend	
property), 36	method), 14
threshold (aisquared.config.postprocessing.BinaryClassification.d)	
property), 15	method), 44
threshold (aisquared.config.postprocessing.ObjectDetectiona Otigen	
property), 15	method), 15
threshold_key(aisquared.config.rendering.DocumentRentderintigd	
property), 30	method), 15
threshold_key(aisquared.config.rendering.ImageRendering_Idiage	
property), 34	method), 15
threshold_key(aisquared.config.rendering.WordRenderingoWordRenderingoWordRenderingo	
property), 40	method), 16
threshold_value(aisquared.config.rendering.DocumentReadding	ди) дашкцикана кан пре дрегрение ssing.image.imagePreprocessing.im method), 17
property), 30 threshold_value(aisquared.config.rendering.ImageRend&cinglian	
property), 34	method), 17
threshold_value(aisquared.config.rendering.WordRenderingdWo	
property), 40	method), 17
	t() (aisquared.config.preprocessing.image.Steps.DivideValue
method), 3	method), 18
$\verb"to_dict()" (a is quared. config. analytic. Deployed Analytic. Depl$	the Market of the Config. preprocessing.image. Steps. Multiply Value
method), 5	method), 18
to_dict() (aisquared.config.analytic.DeployedModel.Deploye	
method), 6	method), 18
to_dict() (aisquared.config.analytic.LocalAnalytic.LocalAvaldict	
method), 6	method), 19
to_dict() (aisquared.config.analytic.LocalModel.LocalModel.dict method), 7	method), 19
to_dict() (aisquared.config.analytic.ReverseMLWorkflow.Reverse	
method), 8	method), 20
to_dict() (aisquared.config.CustomObject.CustomObject to_dict	
method), 41	method), 20
to_dict() (aisquared.config.feedback.BinaryFeedback	
method), 9	method), 21
$\verb"to_dict()" (a is quared. config. \textit{feedback}. \textit{Model Feedback}. \textit$	$\mathcal{AC}\!$
method), 9	method), 21
to_dict() (aisquared.config.feedback.MulticlassFeedback.toddicda	
method), 10	method), 22
to_dict() (aisquared.config.feedback.QualitativeFeedbacktQudica	
method), 10 to_dict() (aisquared.config.feedback.RegressionFeedbacktRe	method), 23
method), 11	method), 23
to_dict() (aisquared.config.feedback.SimpleFeedback.SimpleEvent	
method), 11	method), 23
to_dict() (aisquared.config.GraphConfiguration.GraphConfiglination	
method), 42	method), 24
to_dict() (aisquared.config.harvesting.ChatbotHarvester.Chadiati	
method), 12	method), 24
$\verb"to_dict(")" (a is quared. config. harvesting. Image Harvester. In \verb"tage" dharvester. In tage" dharvester. In$	
method), 12	method), 25
to_dict() (aisquared.config.harvesting.InputHarvester.InputHarvest	tMOr (a is quared. config. rendering. Bar Chart Rendering. Bar Char

```
method), 26
                                                                                                                                                                                                                                                                                                                                                                 unshare_model_with_user()
\verb"to_dict()" (a is quared.config.rendering.Container Rendering.Container Rendering.C
                                                         method), 27
                                                                                                                                                                                                                                                                                                                                                                                                                            method), 59
to_dict() (aisquared.config.rendering.CustomRendering.CupdatvRegpdovipt() (aisquared.platform.AISquaredPlatformClient.AISquared
                                                          method), 28
                                                                                                                                                                                                                                                                                                                                                                                                                             method), 59
to_dict() (aisquared.config.rendering.DashboardRendering.datsb.bjqddf.daudsqringed.platform.DatabricksClient.DatabricksClient
                                                         method), 28
                                                                                                                                                                                                                                                                                                                                                                                                                             method), 66
to_dict() (aisquared.config.rendering.DashboardReplaceworksory() (aisquared.config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.rendering.Config.r
                                                          method), 29
                                                                                                                                                                                                                                                                                                                                                                                                                             method), 60
to_dict() (aisquared.config.rendering.DocumentRenderingpDocumentRehQx(inigquared.platform.AISquaredPlatformClient.AISquared
                                                          method), 30
                                                                                                                                                                                                                                                                                                                                                                                                                            method), 61
to_dict() (aisquared.config.rendering.DoughnutChartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshartRenatelDoughoutKshart
                                                                                                                                                                                                                                                                                                                                                                                                                             (aisquared.platform.DatabricksClient.DatabricksClient
                                                         method), 32
to_dict() (aisquared.config.rendering.FilterRendering.FilterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRendering.filterRe
                                                                                                                                                                                                                                                                                                                                                                 {\tt url}~(a is quared. config. analytic. Deployed Analytic. Deployed Analytic
                                                          method), 32
 to_dict() (aisquared.config.rendering.HTMLTagRendering.HTMLTagRendering.
                                                                                                                                                                                                                                                                                                                                                                 url (aisquared.config.analytic.DeployedModel.DeployedModel
                                                          method), 33
to_dict() (aisquared.config.rendering.ImageRendering.ImageRendepinoperty), 6
                                                                                                                                                                                                                                                                                                                                                                 url (aisquared.config.GraphConfiguration.GraphConfiguration
                                                          method), 34
to_dict() (aisquared.config.rendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRendering.LineChartRend
                                                         method), 36
                                                                                                                                                                                                                                                                                                                                                                 {\tt url}\ (aisquared.config.ModelConfiguration.ModelConfiguration
to_dict() (aisquared.config.rendering.ObjectRendering.ObjectRendpraperty), 44
                                                                                                                                                                                                                                                                                                                                                                 url_locations (aisquared.config.harvesting.QueryParameterHarvester.Q
                                                          method), 36
to_dict() (aisquared.config.rendering.PieChartRendering.PieChartRendering.13
                                                                                                                                                                                                                                                                                                                                                                 {\tt use\_port}\ (a is quared. plat form. AIS quared Plat form Client. AIS quared Plat form. AIS quared Plat fo
                                                          method), 38
to_dict() (aisquared.config.rendering.SOSRenderingproperty), 61
                                                          method), 38
                                                                                                                                                                                                                                                                                                                                                                  {\tt username} \ (a is quared. platform. AIS quared Platform Client. AIS quared Platform. AIS
to_dict() (aisquared.config.rendering.TableRendering.TableRenderingperty), 61
                                                                                                                                                                                                                                                                                                                                                                 username (aisquared.platform.DatabricksClient.DatabricksClient
                                                         method), 39
to_dict() (aisquared.config.rendering.TextRendering.TextRenderingproperty), 67
                                                            method), 39
to_dict() (aisquared.config.rendering.WordRendering.WordRendering
                                                          method), 40
                                                                                                                                                                                                                                                                                                                                                                  value (aisquared.config.preprocessing.image.Steps.AddValue
                                                                                                      (aisquared.base.BaseObject.BaseObject
to_json()
                                                                                                                                                                                                                                                                                                                                                                                                                            property), 17
                                                            method), 3
                                                                                                                                                                                                                                                                                                                                                                 {\tt value} \ (a is quared. config. preprocessing. image. Steps. Divide Value
token (aisquared.platform.AISquaredPlatformClient.AISquaredPlatformGliqut, 18
                                                         property), 58
                                                                                                                                                                                                                                                                                                                                                                   value (aisquared.config.preprocessing.image.Steps.MultiplyValue
token (aisquared.platform.DatabricksClient.DatabricksClient
                                                                                                                                                                                                                                                                                                                                                                                                                            property), 18
                                                         property), 66
                                                                                                                                                                                                                                                                                                                                                                  value (aisquared.config.preprocessing.image.Steps.SubtractValue
token_pattern(aisquared.config.preprocessing.text.Steps.Tokenize property), 19
                                                         property), 24
                                                                                                                                                                                                                                                                                                                                                                  value (aisquared.config.rendering.FilterRendering.FilterRendering
Tokenize (class in aisquared.config.preprocessing.text.Steps),
                                                                                                                                                                                                                                                                                                                                                                                                                            property), 32
                                                                                                                                                                                                                                                                                                                                                                  values (aisquared.config.preprocessing.tabular.Steps.OneHot
Trim (class in aisquared.config.preprocessing.text.Steps),
                                                                                                                                                                                                                                                                                                                                                                                                                            property), 20
                                                                                                                                                                                                                                                                                                                                                                  version (aisquared.config.GraphConfiguration.GraphConfiguration
truncate_location(aisquared.config.preprocessing.text.Steps.PadSpayers, 42
                                                         property), 23
                                                                                                                                                                                                                                                                                                                                                                  {\tt version} \ (a is quared. config. Model Configuration. Model Configuration
                                                                                                                                                                                                                                                                                                                                                                                                                             property), 44
U
                                                                                                                                                                                                                                                                                                                                                                 {\tt vocabulary} \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a is quared. config. preprocessing. text. Steps. Convert To Vocabulary) \ (a
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                                                         property), 30
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unshare_model_with_group()
                                                          (a is quared. platform. A IS quared Platform Client. A IS \textit{quared} Platform Client. A IS \textit{
```

property), 29

method), 58

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{\tt width} (a is quared. config. rendering. Container Rendering. Container Rendering) and the container Rendering (a c
                                          property), 27
{\tt word\_list} \ (a is quared. config. rendering. Word Rendering. Word Rendering) \\
                                          property), 40
WordRendering
                                                                                                                                              (class
                                                                                                                                                                                                                                             in
                                          aisquared.config.rendering.WordRendering),
words (aisquared.config.rendering.DocumentRendering.DocumentRendering
                                          property), 30
Χ
\verb"xOffset" (a is quared. config. rendering. Container Rendering. Container Rendering) \\
                                         property), 27
Y
\verb|y0ffset|| (a is quared. config. rendering. Container Rendering. Container Rendering)| \\
                                         property), 27
Ζ
{\tt ZScore}\,(class\,in\,a is quared.config.preprocessing.tabular.Steps),
```