# aisquared

**The AI Squared Team** 

## **DOCUMENTATION**

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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: 0.3.2** 

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**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 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.

## 1.1.1.2 Subpackages

#### aisquared.base package

#### **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.

#### **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.

```
to_dict() → dict
Get the object as a dictionary
to_json() → str
Return the object as a json string
```

#### aisquared.base.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'}}
)
```

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

Get the object as a dictionary

## 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

## aisquared.config package

#### **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

## **Subpackages**

## aisquared.config.analytic package

#### **Module contents**

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

## **Submodules**

#### aisquared.config.analytic.DeployedAnalytic module

Bases: BaseObject

Interaction with a remote analytic

Example usage:

```
>>> import aisquared
>>> analytic = aisquared.config.analytic.DeployedAnalytic(
    'analytic_url',
    'text'
)
>>> analytic.to_dict()
{'className': 'DeployedAnalytic',
'params': {'url': 'analytic_url',
'inputType': 'text',
'secret': 'request',
'header': None}}
```

```
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:

```
property header
property input_type
property secret
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:

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```
property all
     property input_type
     property path
     to_dict() \rightarrow 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
     to_dict() \rightarrow dict
          Get the configuration object as a dictionary
aisquared.config.analytic.ReverseMLWorkflow module
class aisquared.config.analytic.ReverseMLWorkflow.ReverseMLWorkflow(bucket: str, filename: str,
                                                                             column: str, input_type:
                                                                             str, period: Optional[int] =
                                                                             None, secret: str = ")
     Bases: BaseObject
     Interaction with a ReverseML CSV stored in S3
     Example usage:
     >>> import aisquared
     >>> analytic = aisquared.config.analytic.ReverseMLWorkflow(
          'bucket_name',
          'file_name',
          'column_name',
```

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'text'

)

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```
>>> analytic.to_dict()
{'className': 'ReverseMLWorkflow',
'params': {'bucket': 'bucket_name',
'fileName': 'file_name',
'inputType': 'text',
'column': 'column_name',
'period': None,
'secret': ''}}
```

```
property bucket

property column

property filename

property input_type

property period

property secret

to_dict() → dict

Get the configuration object as a dictionary
```

## aisquared.config.feedback package

#### **Module contents**

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

#### **Submodules**

## aisquared.config.feedback.BinaryFeedback module

```
{\bf class} \ a is quared. config. feedback. Binary Feedback. {\bf Binary Feedback} ({\it label\_map: list}) \\ Bases: {\it BaseObject}
```

Example usage:

Feedback for binary classification

```
>>> 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

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'

```
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:

```
>>> import aisquared
>>> my_obj = aisquared.config.feedback.MulticlassFeedback(['class1', 'class2',
>>> my_obj.to_dict()
```

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```
{'className': 'MulticlassFeedback',
'params': {'labelMap': ['class1', 'class2', 'class3']}}
```

#### property label\_map

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

Return the object as a dictionary

## aisquared.config.feedback.QualitativeFeedback module

## ${\bf class} \ {\bf aisquared.config.feedback.Qualitative Feedback.Qualitative Feedback}$

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'

```
\textbf{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

```
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': {}}
```

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

Return the object as a dictionary

## aisquared.config.harvesting package

#### Module contents

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

#### **Submodules**

## 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

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

Get the configuration object as a dictionary

## aisquared.config.harvesting.InputHarvester module

## aisquared.config.harvesting.QueryParameterHarvester module

Get the configuration object as a dictionary

class aisquared.config.harvesting.QueryParameterHarvester.QueryParameterHarvester(query\_keys:

Union[str, list], url\_locations: Union[str, list], attributes: Union[str, list])

Bases: BaseObject

 $to\_dict() \rightarrow dict$ 

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:
                                                                       Optional[str] = None, flags: str =
                                                                       'gu', body\_only: bool = False,
                                                                       keywords: Optional[Union[str,
                                                                       list]] = None, limit: Optional[int]
                                                                       = 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
     to\_dict() \rightarrow dict
          Get the configuration object as a dictionary
```

## aisquared.config.postprocessing package

#### **Module contents**

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

#### **Submodules**

## aisquared.config.postprocessing.BinaryClassification module

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}}
```

```
property label_map
```

#### property threshold

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

Get the configuration object as a dictionary

#### aisquared.config.postprocessing.MulticlassClassification module

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

## 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

```
 \textbf{class} \  \, \text{aisquared.config.postprocessing.Regression.Regression}(\textit{min: Optional[Union[int, float]]} = \\ \textit{None, max: Optional[Union[int, float]]} = \\ \textit{None, max: Optional[Union[int, float]]} = \\ \textit{None, round: bool} = \textit{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

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

Get the configuration object as a dictionary

## aisquared.config.preprocessing package

#### **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.

## **Subpackages**

## aisquared.config.preprocessing.image package

#### **Module contents**

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

#### **Submodules**

## aisquared.config.preprocessing.image.lmagePreprocessing module

Bases: BaseObject

Preprocessor object for image data

Example usage:

```
>>> import aisquared
>>> preprocesser = aisquared.config.preprocessing.image.ImagePreprocessor()
>>> preprocesser.add_step(
    aisquared.config.preprocessing.image.AddValue(255.0)
)
```

```
add_step(step)
```

Add a step to the preprocessor 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: Union[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.ImagePreprocessor()
     >>> 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.ImagePreprocessor()
     >>> 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: Union[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.ImagePreprocessor()
     >>> 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: Union[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.ImagePreprocessor()
     >>> 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.ImagePreprocessor()
     >>> 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: Union[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.ImagePreprocessor()
     >>> preprocesser.add_step(
         aisquared.config.preprocessing.image.SubtractValue(255.0)
     to_dict() \rightarrow dict
          Get the configuration object as a dictionary
     property value
```

## aisquared.config.preprocessing.tabular package

#### **Module contents**

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

#### **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

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

Get the configuration object as a dictionary

class aisquared.config.preprocessing.tabular.Steps.MinMax(mins: list, maxs: list, columns: Optional[list] = 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.TabularPreprocessor()
>>> 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.TabularPreprocessor()
     >>> preprocesser.add_step(
          aisquared.config.preprocessing.tabular.OneHot(
              ['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:
                                                                  Optional[Union[int, list]] = 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.TabularPreprocessor()
     >>> 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

 $\textbf{class} \ \ \textbf{aisquared.config.preprocessing.tabular.TabularPreprocessing.} \ \textbf{TabularPreprocessor} (\textit{steps:} \\$ 

Optional[list]
=
None)

Bases: BaseObject

Preprocessor object for tabular data

Example usage:

Example usage:

```
>>> import aisquared
>>> preprocesser = aisquared.config.preprocessing.tabular.TabularPreprocessor()
>>> 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 preprocessor object

to\_dict()

Get the configuration object as a dictionary

#### aisquared.config.preprocessing.text package

#### **Module contents**

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

#### **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.TextPreprocessor()
>>> 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: Optional[int]
                                                                             = None)
     Bases: BaseObject
     Text preprocessing object to convert tokens to integer vocabularies
     Example usage:
     >>> import aisquared
     >>> preprocesser = aisquared.config.preprocessing.text.TextPreprocessor()
     >>> preprocesser.add_step(
         aisquared.config.preprocessing.text.ConvertToVocabulary(
              {
                   'test' : 3,
                   'vocabulary': 4
              }
         )
     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 =
                                                                     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.TextPreprocessor()
     >>> 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.TextPreprocessor()
     >>> 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.TextPreprocessor()
     >>> 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.TextPreprocessor()
>>> 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

Bases: BaseObject

Preprocessor object for natural language

Example usage:

```
>>> import aisquared
>>> preprocesser = aisquared.config.preprocessing.text.TextPreprocessor()
>>> preprocesser.add_step(
    aisquared.config.preprocessing.text.Tokenize()
)
```

## add\_step(step)

Add a step to the preprocessor object

```
property step_dict
```

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

Get the configuration object as a dictionary

## aisquared.config.rendering package

#### **Module contents**

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

#### **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: Optional[str]
= None, width: str =
'auto', height: str = 'auto',
xOffset: str = '0', yOffset:
str = '0', labels:
Optional[list] = None,
consolidate\_rows: bool =
True)

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',
    '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',
    'xOffset': '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.ContainerRendering module

```
class aisquared.config.rendering.ContainerRendering.ContainerRendering(label: str, id: str,
                                                                               query_selector: str,
                                                                               position: str =
                                                                               'absolute',
                                                                               static_position:
                                                                               Optional[str] = None,
                                                                               width: str = 'auto',
                                                                               height: str = 'auto',
                                                                               display: str = 'flex',
                                                                              xOffset: str = '0',
                                                                               yOffset: str = '0',
                                                                               orientation: str =
                                                                               'column')
     Bases: BaseObject
     Rendering for a container
     Example usage:
     >>> import aisquared
     >>> my_obj = aisquared.config.rendering.ContainerRendering(
         'my container',
          '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() → dict
    Get the configuration object as a dictionary
property width
property xOffset
property yOffset
```

## aisquared.config.rendering.DashboardReplacementRendering module

class aisquared.config.rendering.DashboardReplacementRendering.DashboardReplacementRendering(anchor\_selec

```
str,
where_replace
str
=
'',
la-
bel:
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() → dict
    Get the configuration object as a dictionary
property where_replace
```

#### aisquared.config.rendering.DocumentRendering module

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
```

Optional[Union[int,
float]] = None)

```
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:
Optional[str]
= None.
width: str =
'auto', height:
str = 'auto',
xOffset: str =
'0', yOffset:
str = '0',
labels: Op-
tional[list] =
None,
consoli-
date_rows:
bool = True)
```

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,
```

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```
'circle'
)
>>> my_obj.to_dict()
{'className': 'DoughnutChartRendering',
'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',
    '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() \rightarrow 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': ''}}
```

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

Return the configuration object as a dictionary

#### aisquared.config.rendering.lmageRendering module

Get the configuration object as a dictionary

```
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: Optional[list] =
                                                                       None, threshold_key:
                                                                       Optional[str] = None,
                                                                       threshold_value:
                                                                       Optional[Union[int, float]] =
                                                                       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
```

'0', yOffset: str = '0', labels: Optional[list] =

consolidate\_rows: bool

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None,

= True)

# aisquared.config.rendering.LineChartRendering module

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',
'x0ffset': '0',
'yOffset': '0',
'datasource': [{'labels': None,
    'labelsKey': 'labels',
    'consolidateRows': True,
```

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

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

Get the configuration object as a dictionary

# aisquared.config.rendering.ObjectRendering module

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
```

Optional[list] = None, consolidate\_rows: bool =

True)

# aisquared.config.rendering.PieChartRendering module

class aisquared.config.rendering.PieChartRendering.PieChartRendering(label: str, id: str,  $chart\_name: str$ ,  $container\_id: str$ ,  $prediction\_name\_key: str$ ,  $prediction\_value\_key: str$ ,  $prediction\_value\_key: str$ ,  $prediction\_name\_value: str$ ,  $display\_legend: bool$ ,  $legend\_icon: str$ ,  $labels\_key: Optional[str] = None, width: <math>str = 'auto'$ , height: str = 'auto', xOffset: str = '0', yOffset: str = '0'

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',
    'predictionNameValue': 'name_value'}]}}
```

```
to\_dict() \rightarrow dict
Get the configuration object as a dictionary
```

# aisquared.config.rendering.SOSRendering module

```
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  \label \\  \mbox{to\_dict()} \rightarrow \mbox{dict} \\  \mbox{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',
    'params': {'id': 'MyTableID',
    'containerId': 'MyContainerID',
    'predictionNameKey': 'name_key',
    'predictionValueKey': 'value_key',
```

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```
'predictionNameValues': 'name_values',
'tableName': ''}}
```

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

Get the configuration object as a dictionary

# aisquared.config.rendering.WordRendering module

Bases: BaseObject

Object for rendering badges on individual words

Example usage:

```
>>> import aisquared
>>> my_obj = aisquared.config.rendering.WordRendering()
>>> my_obj.to_dict()
{'className': 'WordRendering',
'params': {'wordList': 'input',
'resultKey': None,
'contentKey': None,
'badgeShape': 'star',
'badgeColor': 'blue',
'classes': None,
'thresholdKey': None,
'thresholdValue': None}}
```

```
property badge_color

property badge_shape

property classes

property content_key

property result_key

property threshold_key

property threshold_value

to_dict() → dict

Get the configuration object as a dictionary

property word_list
```

# **Submodules**

# aisquared.config.GraphConfiguration module

```
class aisquared.config.GraphConfiguration.GraphConfiguration(name: str, stage: str = 'experimental', version:

Optional[int] = None, description:

str = ", mlflow\_uri: Optional[str] = None, mlflow\_user: Optional[str] = None, mlflow\_token: Optional[str] = None, owner: Optional[str] = None, owner: Optional[str] = owner: owner
```

Bases: BaseObject

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

```
add_node(step: BaseObject, dependencies: Optional[Union[int, list]] = 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: Optional[str] = None, dtype: Optional[str] = None) <math>\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
```

```
get_filenames() \rightarrow 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:

```
Optional[Union[BaseObject, list]] =
None, preprocessing_steps:
Optional[Union[BaseObject, list]] =
None, analytic:
Optional[Union[BaseObject, list]] =
None, postprocessing_steps:
Optional[Union[BaseObject, list]] =
None, rendering steps:
Optional[Union[BaseObject, list]] =
None, feedback_steps:
Optional[Union[BaseObject, list]] =
None, stage: str = 'experimental',
version: Optional[int] = None,
description: str = ", mlflow\_uri:
Optional[str] = None, mlflow\_user:
Optional[str] = None, mlflow\_token:
Optional[str] = None, owner:
Optional[str] = None, url: str = '*',
auto\_run: bool = False)
```

Bases: BaseObject

Configuration object for deploying a model or analytic

```
property analytic
property analytic_dict
property auto_run
```

**compile**( $filename: Optional[str] = None, dtype: Optional[str] = None) <math>\rightarrow$  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 feedback_dict
property feedback_steps
get_model_filenames() \rightarrow list
    Get filenames for all models in the configuration
property harvester_dict
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
\textbf{to\_dict()} \rightarrow dict
    Get the object as a dictionary
property url
property version
```

# 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

#### 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.

#### **Submodules**

# aisquared.platform.AISquaredPlatformClient module

```
\begin{tabular}{ll} \textbf{exception} & a is quared. platform. AIS quared Platform Client. \textbf{AIS quared APIException} \\ & Bases: Exception \\ \end{tabular}
```

 ${\bf class} \ {\bf aisquared.platform.AISquaredPlatformClient.} \\ {\bf AISquaredPlatformClient.} \\ {\bf aisquaredPlatformClient.}$ 

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()
Connection successful
200
```

 $add\_users\_to\_group(group\_id: str, user\_ids: list, port: int = 8086) \rightarrow bool$ 

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 to use

#### Returns

success - Returns True if operation was successful

# Return type

bool

```
property base_url: str
```

The base URL associated with the client

 $create\_group(group\_name: str, role\_id: str, port: int = 8086) \rightarrow dict$ 

Create a group in the platform

```
>>> import aisquared
>>> client = aisquared.platform.AISquaredPlatformClient()
>>> client.create_group(
    'group_name',
    'role_id'
)
*dictionary containing group information*
```

# **Parameters**

- **group\_name** (str) The display name of the group
- **role\_id** (*str*) The role ID for the group
- port (int (default 8086)) The API port to use

#### Returns

**group\_info** – Metadata about the created group

# **Return type**

dict

```
create_user(user\_name: str, first\_name: str, last\_name: str, email: str, role\_id: str, active: bool = True, middle\_name: Optional[str] = None, company_id: Optional[str] = None, password: Optional[str] = None, port: int = <math>8085) \rightarrow dict
```

Create a user within the platform

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

#### **Parameters**

- **user\_name** (*str*) The display name of the user
- **first\_name** (*str*) The user's first name
- last\_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 to use
         Returns
            user data – Metadata about the user
         Return type
            dict
delete\_group(group\_id, port=8086) \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 to use
         Returns
            result – Returns True if successful
         Return type
            bool
delete\_model(id: str, port: int = 8080) \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
         Returns
            success – Whether the action was successful
         Return type
            bool
delete\_user(user\_id: str, port: int = 8085) \rightarrow bool
     Delete a user from the system
    >>> import aisquared
     >>> client = aisquared.platform.AISquaredPlatformClient()
     >>> client.delete_user('user_id')
```

```
Parameters

• user_id (str) - The user's ID

• port (int (default 8085)) - The API port to use

Returns

result - Returns True if the call is successful

Return type
bool
```

**get\_group**( $group\_id: str, port: int = 8086$ )  $\rightarrow$  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 to use

# Returns

**group\_info** – The information about the group

# Return type

dict

 $get\_group\_id\_by\_name(group\_name: str, port: int = 8083) \rightarrow str$ 

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 to use

### Returns

group\_id - The ID of the group

# Return type

str

 $get_model(id: str, port: int = 8080) \rightarrow dict$ 

Retrieve a model configuration

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

```
• id (str) – The ID for the model
```

```
• port (int (default 8080)) - The API port for the call
```

### Returns

data – 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) \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 to use

### Returns

model id – The model's ID

# Return type

str

```
get_role_id_by_name(role name: str, port: int = 8086) \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_name('Role Name')
*role_id*
```

#### **Parameters**

- role\_name (str) The name of the role
- port (int (default 8086)) The API port to use

### Returns

**role** id – The ID of the role

# Return type

str

```
get\_user(user\_id: str, port: int = 8085) \rightarrow dict
```

Retrieve a user's information from the platform

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

```
• user_id (str) – The ID of the user
```

```
• port (int (default 8085)) - The API port to use
```

# Returns

**user\_info** – The information about the user

# Return type

dict

```
get\_user\_id\_by\_name(name: str, port: int = 8080) \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*
```

#### **Parameters**

- name (str) The display name of the user
- port (int (default 8080)) The API port to use

#### Returns

id – The ID of the user

# Return type

str

# property headers

Headers used for authentication with the AI Squared Platform

```
list\_group\_users(group\_id: str, as\_df: bool = True, port: int = 8083) \rightarrow Union[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 to use

# Returns

users - The response from the API

# **Return type**

pandas DataFrame or dictionary

```
list_groups (as\_df: bool = True, port: int = 8083) \rightarrow Union[DataFrame, dict] List all groups
```

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

- as\_df (bool (default True)) Whether to return the result as a pandas DataFrame
- port (int (default 8083)) The API port for the call

#### Returns

groups - The response from the API

# Return type

pandas DataFrame or dictionary

 $list_model_feedback(model_id: str, limit: int = 10, as\_df: bool = True, port: int = 8080) \rightarrow Union[dict, DataFrame]$ 

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

# Returns

**feedback** – The feedback

# Return type

dict or pandas DataFrame

list\_model\_prediction\_feedback( $model\_id: str, as\_df: bool = True, port: int = 8080$ )  $\rightarrow$  Union[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
```

#### Returns

results – The results from the platform

# Return type

dict or pandas DataFrame

 $\label{list_model_usage_metrics} \textbf{(} model\_id: str, period: str = 'hourly', as\_df: bool = True, port: int = 8080) \rightarrow \\ \textbf{Union[dict, DataFrame]}$ 

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 to use

### Returns

results – The results from the platform

### Return type

pandas DataFrame or dict

 $list_model_users(id: str, as_df: bool = True, port: int = 8080) \rightarrow Union[DataFrame, dict]$ 

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
- as\_df (bool (default True)) Whether to return the response as a Pandas DataFrame
- port (int (default 8080)) The API port for the call

#### Doturno

model users - The users for the model

# **Return type**

pandas DataFrame or dictionary

```
list_models(as\_df: bool = True, port: int = 8080) \rightarrow Union[DataFrame, dict]
```

List models within the platform

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

- **as\_df** (bool (default True)) Whether to return the response as a pandas DataFrame
- port (int (default 8080)) The API port for the call

#### Returns

**models** – The models

### **Return type**

pandas DataFrame or dictionary

```
list_prediction_feedback(prediction\_id: str, as\_df: bool = True, port: int = 8080) \rightarrow Union[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

#### Returns

**results** – The results from the platform

# **Return type**

pandas DataFrame or dict

```
list_roles(port: int = 8086) \rightarrow Union[DataFrame, dict]
```

List the roles available in the platform

Example usage:

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

#### **Parameters**

```
port (int (default 8086)) - The API port to use
```

# 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) \rightarrow Union[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**

- $user_id(str)$  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 to use

#### Returns

results – The results from the platform

# **Return type**

pandas DataFrame or dict

```
list_users(as\_df: bool = True, port: int = 8080) \rightarrow Union[DataFrame, dict]
```

List all users

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

# **Parameters**

- as\_df (bool (default True)) Whether to return the data as a Pandas DataFrame
- port (int (default 8080)) The API port for the call

### Returns

users – The response from the API

#### Return type

pandas DataFrame or dictionary

```
login(url: Optional[str] = None, port: int = 8080, username: Optional[str] = None, password: Optional[str] = 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 (default 8080)) - The API port for the call
             • username (str or None (default None)) - The username
             • password (str or None (default None)) - The password
property password: str
     The password associated with the client
remove_users_from_group(group\_id: str, user\_ids: list, port: int = 8086) <math>\rightarrow bool
     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
         Parameters
             • 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 to use
         Returns
             success - Returns True if successful
         Return type
            bool
share\_model\_with\_group(model\_id: str, group\_id: str, port: int = 8080) \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
             • port (int (default 8080)) - The API port to use
         Returns
            success - Returns True if successful
         Return type
             bool
share_model_with_user(model\_id: str, user\_id: str, port: int = 8080) \rightarrow bool
     Share a model with a user
```

```
>>> import aisquared
    >>> client = aisquared.platform.AISquaredPlatformClient()
    >>> client.share_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
        Returns
            success – Whether the action was successful
        Return type
            bool
test_connection(port: int = 8080) \rightarrow int
    Test whether there is a healthy connection to the platform
    >>> import aisquared
    >>> client = aisquared.platform.AISquaredPlatformClient()
    >>> client.test_connection()
    Connection successful
    200
        Parameters
            port (int (default 8080)) - The API port for the call
        Returns
            status_code - The status code when checking the health API
        Return type
            int
property token: str
    The token associated with the client
unshare_model_with_group(model\_id: str, group\_id: str, port: int = 8080) \rightarrow bool
    Unshare a model with a group
    >>> import aisquared
    >>> client = aisquared.client.AISquaredPlatformClient()
    >>> client.unshare_model_with_group('model_id', 'group_id')
    True
        Parameters
             • 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
        Returns
```

success - Returns True if successful

# Return type

bool

unshare\_model\_with\_user( $model\_id: str, user\_id: str, port: int = 8080$ )  $\rightarrow$  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

#### Returns

**success** – Whether the action was successful

# Return type

bool

**update\_group**( $group\_id: str, display\_name: str, role\_id: str, port: int = 8086) <math>\rightarrow$  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 to use

### Returns

success - Returns True if successful

# **Return type**

bool

```
update_user(user\_id: str, user\_name: str, first\_name: str, last\_name: str, email: str, role\_id: str, active: bool = True, middle\_name: Optional[str] = None, company\_id: Optional[str] = None, password: Optional[str] = None, port: int = <math>8085) \rightarrow bool
```

Update information about a user

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

- **user\_id** (*str*) The ID of the user to update
- **user\_name** (*str*) The display name of the user
- **first\_name** (*str*) The first name of the user
- last\_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 to use

### Returns

success - Returns True if update is successful

#### Return type

bool

```
upload_model(model\_file: str, port: int = 8081) \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

#### **Returns**

successful – Whether the action was successful

#### Return type

bool

#### property username: str

The username associated with the client

# aisquared.serving package

#### 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:

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*
```

#### **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: Optional[dict] = None, additional_functions_file: Optional[str] = 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 MANN 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_mann_model(model: str, custom_objects: dict)

Load a MANN model with custom objects
```

# aisquared.serving.get\_remote\_prediction module

```
aisquared.serving.get_remote_prediction.get_remote_prediction(data: Union[dict, str, ndarray, list], host: str = '127.0.0.1', port: int = 2244) \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

# aisquared.utils package

#### 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

# **Submodules**

# aisquared.utils.utils module

```
aisquared.utils.utils.get_model(model_type: str, input_shape: Union[int, tuple[int]], num_outputs: int, output_activation: str, size: str = 'small', vocab_size: Union[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

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: Union[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
- **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

# **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

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