

Module **src**

Source code of your project

Sub-modules

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Module **src.load_data**

This code is used to Load the dataset into memory.

Author: Aravindh P

Functions

Function **load_train_data**

```
def load_train_data(  
    paths: dict  
) -> tuple[pandas.core.series.Series, pandas.core.series.Series]
```

This function loads the training data into memory.

Args —= **paths** : This contains the paths of the datasets.

Returns —= They data is finally returned as dependent features and target variable.

Function **load_val_data**

```
def load_val_data(  
    paths: dict  
) -> tuple[pandas.core.series.Series, pandas.core.series.Series]
```

This function loads the validation data into memory.

Args —= **paths** : This contains the paths of the datasets.

Returns —= They data is finally returned as dependent features and target variable.

Module **src.metrics**

This code is used to calculate the metrics for the given model predictions.

Author: Aravindh P

Functions

Function **evaluate_model**

```
def evaluate_model(  
    y_true,  
    y_pred  
) -> dict
```

This function is used to calculate the classification model metrics.

Args —= **y_true** : This is the actual values.

y_pred This is the predicted values.

Returns —= It finally calculates all the metrics and returns in a dictionary.

Module `src.process`

This code is used to process the dataset.

Author: Aravindh P

Functions

Function `process_data`

```
def process_data(  
    config: omegaconf.dictconfig.DictConfig  
)
```

This is the configuration function used process the raw data.

Args —= **config** : This is the YAML config info.

Function `process_text`

```
def process_text(  
    path: str,  
    col: str,  
    batch: int  
) -> pandas.core.frame.DataFrame
```

This function is used to process all the sentences in the given data series, by removing stopwords and lemmatization of the words.

Args —= **path** : This is the path to the given data series to be processed.

col The column that contains the text data.

batch The number of sentences to be processed parallelly.

Returns —= It returns the processed data series data-frame.

Module `src.train_model`

This code is used to train the model. Author: Aravindh P

Functions

Function `create_pipeline`

```
def create_pipeline(  
    steps: int,  
    class_weights: str = 'balanced',  
    jobs=-1  
) -> sklearn.pipeline.Pipeline
```

This function is used to create the modeling pipeline.

Args —= **steps** : It is the number of iterations for the model before convergence.

class_weights It is the used to balance the target classes if the data is imbalanced.

jobs The number of parallel process to run.

Returns —= The function returns the constructed pipeline.

Function `train_model`

```
def train_model(  
    config: omegaconf.dictconfig.DictConfig  
)
```

This function is configuration function used to train the model.

Args —= **config**: This is the YAML config info.

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