Package 'shinyML'

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```
shinyML_classification
```

Implement a shiny web app to compare h2o and Spark supervised machine learning models for classification tasks

Description

This function creates in one line of code a shareable web app to compare supervised classification model performances

Usage

```
shinyML_classification(
  data = data,
  y,
  framework = "h2o",
  share_app = FALSE,
  port = NULL
)
```

Arguments

| data | dataset containing one or more explanatory variables and one categorical variable to predict. The dataset must be a data.frame or a data.table and can contain time-based column on Date or POSIXct format |
|-----------|--|
| у | the categorical output variable to predict (must correspond to one data column) |
| framework | the machine learning framework chosen to train and test models (either $h2o$ or Spark). $h2o$ by default |
| share_app | a logical value indicating whether the app must be shared on local LAN |
| port | a four-digit number corresponding to the port the application should listen to. This parameter is necessary only if share_app option is set to TRUE |

Author(s)

```
Jean Bertin, < jean.bertin@mines-paris.org>
```

Examples

```
## Not run:
library(shinyML)
shinyML_classification(data = iris,y = "Species",framework = "h2o")
## End(Not run)
```

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| shinyML_regression | Implement a shiny web app to compare h2o and Spark supervised ma- |
|--------------------|---|
| | chine learning models for regression tasks |

Description

This function creates in one line of code a shareable web app to compare supervised regression model performances

Usage

```
shinyML_regression(
  data = data,
  y,
  framework = "h2o",
  share_app = FALSE,
  port = NULL
)
```

Arguments

| data | dataset containing one or more explanatory variables and one numeric variable to forecast. The dataset must be a data.frame or a data.table and can contain time-based column on Date or POSIXct format |
|-----------|---|
| у | the numerical output variable to forecast (must correspond to one data column) |
| framework | the machine learning framework chosen to train and test models (either h2o or Spark). h2o by default |
| share_app | a logical value indicating whether the app must be shared on local LAN |
| port | a four-digit number corresponding to the port the application should listen to. This parameter is necessary only if share_app option is set to TRUE |

Author(s)

```
Jean Bertin, <jean.bertin@mines-paris.org>
```

Examples

```
## Not run:
library(shinyML)
# Classical regression analysis
shinyML_regression(data = iris,y = "Petal.Width",framework = "h2o")

# Time series analysis
longley2 <- longley %>% mutate(Year = as.Date(as.character(Year),format = "%Y"))
shinyML_regression(data = longley2,y = "Population",framework = "h2o")

## End(Not run)
```

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