

Package ‘ddeploy’

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Type Package

Title Wrapper for the Duke Deploy REST API

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Description A wrapper for the Duke Analytics model deployment API. See <<http://www.dukeanalytics.com/products/dukedeployR.php>> for more details.

License GPL

Depends R (>= 3.0.0)

Imports httr, jsonlite

NeedsCompilation no

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R topics documented:

ddeploy	2
duke_deploy	2
duke_list	3
duke_predict	4
strip_model	5

Index	6
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ddeploy	<i>ddeploy: Wrapper for the Duke Deploy REST API</i>
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Description

ddeploy provides the functionality to deploy any predictive model to the cloud using the Duke Analytics RESTful API service. See <http://www.dukeanalytics.com/products/dukedeployR.php> for more details.

Details

Package:	ddeploy
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Author(s)

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References

<http://www.dukeanalytics.com/products/dukedeployR.php>

duke_deploy	<i>Deploy model using REST API</i>
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Description

Deploy model using REST API

Usage

```
duke_deploy(auth_details, model_object, predict_udf = NULL,
            host_name = NULL)
```

Arguments

auth_details	authorization parameters (must be stored in list format: list(user_name='exampleusername',api_key='examplekey'))
model_object	the model to deploy e.g. lm() or glm() object.
predict_udf	user defined function as alternative to the built-in model object predict function.
host_name	optional parameter.

Value

Deployment status, success or failure with message.

See Also

[duke_predict](#) for making predictions with deployed models or [duke_list](#) to display a list of all deployed models.

Examples

```
duke_auth <- list(
  user_name = "try_it",
  api_key   = "db1542b66f16aba5768d8a19c27dec4facf9168a",
  endpoint  = "/api/v1.0"
)
example_data <- as.data.frame(cbind(gl(3,50),rnorm(150)));names(example_data) <- c("x","y")
example_fit  <- lm(y~x,data=example_data)
duke_deploy(auth_details=duke_auth,model_object=example_fit)
```

duke_list	<i>List all models deployed.</i>
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Description

List all models deployed.

Usage

```
duke_list(auth_details)
```

Arguments

`auth_details` authorization parameters (must be stored in list format: `list(user_name='exampleusername',api_key='examplekey')`)

Value

A data.frame object with columns `model_name`, `model_size`, `last_update`, `deploy_type`.

See Also

[duke_deploy](#) to deploy a model or [duke_predict](#) for making predictions with deployed models.

Examples

```
duke_auth <- list(
  user_name = "try_it",
  api_key   = "db1542b66f16aba5768d8a19c27dec4facf9168a",
  endpoint  = "/api/v1.0"
)
duke_list(auth_details=duke_auth)
```

duke_predict	<i>Predict using deployed model using REST API.</i>
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Description

Predict using deployed model using REST API.

Usage

```
duke_predict(auth_details, model_name, new_data, host_name = NULL)
```

Arguments

auth_details	authorization parameters (must be stored in list format: list(user_name='exampleusername',api_key='examplekey'))
model_name	the name of the deployed model for predictions.
new_data	new feature values for predictions.
host_name	optional parameter.

Value

On successful prediction, a character vector with model predictions. An error message is returned on failure.

See Also

[duke_deploy](#) for deploying a model or [duke_list](#) to display a list of all deployed models.

Examples

```
duke_auth <- list(
  user_name = "try_it",
  api_key   = "db1542b66f16aba5768d8a19c27dec4facf9168a",
  endpoint  = "/api/v1.0"
)
example_data <- as.data.frame(cbind(gl(3,50),rnorm(150)));names(example_data) <- c("x","y")
duke_predict(auth_details=duke_auth,model_name="example_fit",example_data)
```

`strip_model`*Strip objects unnecessary for prediction with class.*

Description

Strip objects unnecessary for prediction with class.

Usage

```
strip_model(model_object, model_class = NULL)
```

Arguments

`model_object` the model to strip pre-deployment.
`model_class` model class string e.g. "lm", "glm", "gam" ...

Value

None

Examples

```
example_data <- as.data.frame(cbind(gl(3,50),rnorm(150)));names(example_data) <- c("x","y")
example_fit <- lm(y~x,data=example_data)
strip_model(example_fit,"lm")
```

Index

*Topic **cloud**

ddeploy, [2](#)

*Topic **deployment**

ddeploy, [2](#)

*Topic **deploy**

ddeploy, [2](#)

*Topic **model**

ddeploy, [2](#)

ddeploy, [2](#)

ddeploy-package (ddeploy), [2](#)

duke_deploy, [2](#), [3](#), [4](#)

duke_list, [3](#), [3](#), [4](#)

duke_predict, [3](#), [4](#)

strip_model, [5](#)