DataRobot

DataRobot.Python.Cheat_Sheet



Connecting

 To start with DataRobot, first connect, the endpoint here is US Managed Cloud



Create Project

◆ Dataframe

Dataset

```
dataset = Dataset.create_from_file(file_path=DATA_PATH)
project = Project.create_from_dataset(dataset.id)
```

◆ URL

```
project = create_from_url(url, do_snapshot=False)
```

◆ Start Binary Classification, Regression, Multi-class Project

◆ Create Calendar File

```
CAL = dr.CalendarFile.create('Calendar.csv',
```

calendar_name='Holidays')

◆ DateTime Partitioning

```
TIME_PARTITION = dr.DatetimePartitioningSpecification(
    use_time_series=True, datetime_partition_column=DATE,
    multiseries_id_columns=None,
    forecast_window_start=None,
    forecast_window_end=None,
    calendar_id=CAL.id)
```

Start Project

Feature Lists

◆ Get Feature Lists

project.get_modeling_featurelists()

◆ Create Feature Lists

Blueprints

◆ List Blueprints

project.get_blueprints()

◆ Get Blueprint

BlueprintChart.get(project_id, blueprint_id)

◆ View Blueprint Chart

print(bp_chart.to_graphviz())

◆ Get Blueprint Documentation

bp = Blueprint.get(project_id, blueprint_id)
docs = bp.get_documents()

Models

◆ Get Models



◆ Select Model

```
menu = project.get_blueprints()
blueprint = menu[0]
```

◆ Train new feature list or sample size

model.train(featurelist_id=custom_featurelist.id)

◆ Train for a new duration

Evaluating

Lift Chart

AutoML

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AutoTS

model.get_lift_chart(source='validation')

◆ ROC/Curve

model.get_roc_curve('validation')

◆ Residuals

```
ExternalResidualsChart.get(project_id, model_id, dataset id)
```

◆ Confusion Matrix

model.get_confusion_chart(source='validation')

Profit

Understanding

Feature Impact

model.get_or_request_feature_impact()

◆ Prediction Explanations

```
dr.PredictionExplanationsInitialization.create(
    project.id,
    model.id)
```

dr.PredictionExplanations.create(
 project.id,
 model.id,
 dataset.id)

pe_job.get_result_when_complete()

◆ Feature Effects

model.request_feature_effect()

◆ Word Cloud

model.get_word_cloud()

🐎 🛮 Advanced Tuning

◆ Interactive Tuning Interface

tune = model.start_advanced_tuning_session()

◆ Parameters available for Tuning

tune.get_task_names()

Set Tuning Parameters

◆ Run Tuned Model

```
job = tune.run()
```

new_model = job.get_result_when_complete()

Predictions

◆ List Prediction Servers

dr.PredictionServer.list()

◆ Create a Deployment

```
deployment = dr.Deployment.create_from_learning_model(
   model.id,
   label='New Deployment',
   description='A new deployment',
   default_prediction_server_id=prediction_server.id)
```

List Deployments

dr.Deployment.list()

◆ Get Deployment

dr.Deployment.get(deployment_id='5c939e08962')

Batch Predictions

◆ Model Replacement

Drift Tracking

deployment.get_target_drift()

◆ Predictions from a Deployment

Further Resources

Python documentation

https://datarobot-public-api-client.readthedocs-hosted.com

◆ DataRobot Github Community

https://github.com/datarobot-community

Ask Ouestions

https://community.datarobot.com



