UbiOps Cheat Sheet - Python

Connection set-up

```
import ubiops
config = ubiops.Configuration(api_key={"Authorization": API_TOKEN})
client = ubiops.ApiClient(config)
api = ubiops.CoreApi(client)
```

Deployment.py tricks

return {

```
file_path = os.path.join(base_directory, "your-filename")

Reading in an environment variable:
import os
my_var = os.environ["var_name"]

Reading in input data of request:
def request(self, data):
   input_x = data['input_x'] # For structured data
   input_x = data # For plain data
   # ... rest of code

Outputting a file:
```

Getting the file path to a file in your package from the deployment.py:

Making requests with the Python Client Library

"output_field_name": 'rel/path/to/file' #i.e. 'some_file.csv'

A request to the default version of a deployment:

```
data = {'input_field_1': 123}
request_result = api.deployment_requests_create(
   project_name=PROJECT_NAME,
   deployment_name=DEPLOYMENT_NAME,
   data=data)
```

A batch request to the default version of a deployment:

```
response = api.batch_deployment_version_requests_create(
   project_name=PROJECT_NAME,
   deployment_name=DEPLOYMENT_NAME,
   version=DEPLOYMENT_VERSION,
   data=data)
```

A request to the default version of a pipeline

```
request_result = api.pipeline_requests_create(
   project_name=PROJECT_NAME,
   pipeline_name=PIPELINE_NAME,
   data=data)
```

A batch request to the default version of a pipeline

```
response = api.batch_pipeline_version_requests_create(
   project_name=PROJECT_NAME,
   pipeline_name=DEPLOYMENT_NAME,
   version=DEPLOYMENT_VERSION,
   data=data)
```

Making a request with a Blob:

```
img_path = "/path/to/image"
blob = api.blobs_create(project_name=PROJECT_NAME, file=img_path)
blob_data = {'image': blob.id}
# <Your regular request code with blob_data passed as data>
```

Notebook tips

For creating a deployment.py directly from your notebook cell, type this at the top of the cell:

%%writefile deployment_package_folder/deploym
ent.py

Loading contents of a file into a cell:

%load rel/path/to/file

Zip and upload your package to UbiOps:

Data type names in Client Library

int	array_int
string	array_string
double	array_double
bool	blob

Handy resources

Swagger (API) Client library

<u>Tutorials</u> <u>CLI</u>

Our GitHub repo Documentation

You can also test your deployments locally before pushing to UbiOps with this script here.

