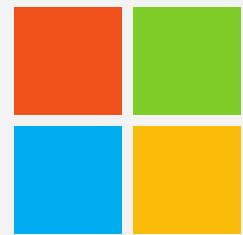


Harshit Ahluwalia



Microsoft

Announcing **Power BI** in Jupyter notebooks



Harshit Ahluwalia

For a quick peek into how to use the package in your application, check out the example in the next slide.

Install the package using `pip`:

```
pip install powerbiclient
```

Or if you use JupyterLab:

```
pip install powerbiclient
jupyter labextension install @jupyter-widgets/jupyterlab-manager
```

Open your notebook and add the following:

1. Import Report class and models from the package:

```
from powerbiclient import Report, models
```

2. Authenticate against Power BI using Azure AD:

```
# Import the DeviceCodeLoginAuthentication class to authenticate against Power BI
from powerbiclient.authentication import DeviceCodeLoginAuthentication

# Initiate device authentication
device_auth = DeviceCodeLoginAuthentication()
```

3. Set the workspace ID and report ID you'd like to embed:

```
group_id=""
report_id=""
```

4. Create an instance of Power BI report and load the report to the output cell:

```
report = Report(group_id=group_id, report_id=report_id, auth=device_auth)

report
```



You can also authenticate against Power BI using an **embed token**. To do this, pass the embed token and set the token type to `Embed` when creating the Power BI report instance:

```
report = Report(group_id=group_id, report_id=report_id, access_token=access_token, token_type=
models.TokenType.Embed.value)
```

Here's a 3-step quick start guide for embedding Power BI in Jupyter notebooks.



1. Install the Power BI Client package in your Jupyter Notebook environment

Here's how



Install Power BI
Jupyter Client from
PyPI



Open a Jupyter
notebook in your
browser

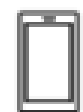


Import the Power
BI Client into
Jupyter notebook

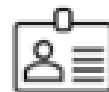


2. Embed your Power BI Embedded analytics report

Here's how



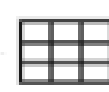
Authenticate to
Power BI



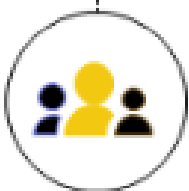
Get report and
workspace ID



(Optional) Set
report event
handlers

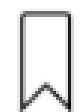


Embed the report in
an output cell



3. Interact with the report

Here's how



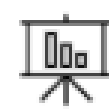
Apply bookmarks
and filters to the
embedded report



Get the page and
visual name



Export summarized
data from a report
visual



Explore Power BI
data in-depth in
Jupyter notebook



Harshit Ahluwalia



ARE YOU READY TO USE POWER BI IN JUPYTER NOTEBOOK



Harshit Ahluwalia