**Data-Science-Architecture**

**What kind of data science architecture would be right for your project?**

Microsoft Excel in combination with VBA falls in two categories: Notebook and Dashboard.

It can be considered a notebook-architecture, due to the VBA development framework provided by Excel. One could argue that there are parallels between classical notebook-architecture such as Jupyter or Rmarkdown.

On the other side, Excel provides a myriad of functionalities to graphically illustrate data.

This combination is perhaps one of the reasons why Excel is still widely used in the industry and ultimately why I chose to grapple with the topic.

**What could this look like?**

The final excels automatically updates its data base periodically. Since client relevant variables are chosen automatically and pivot tables and graphs are predetermining, the user sees only information that is relevant to him respectively can navigate (and click) through the familiar interface.

**Why not a different approach?**

End user lack familiarity with other tool or programs that require basic know programming knowledge such as Python or R. The reasons are multifold, and, among others, include:

* High switching cost to change from one system to another (training staff costs money) 🡪 lock in effect
* High share of long-serving employees who are reluctant to learn something new
* General unwillingness to change established structures
* Politically motivated reasons.

**How could pipelines be used?**

Pipelines are not applicable for the use case at hand