



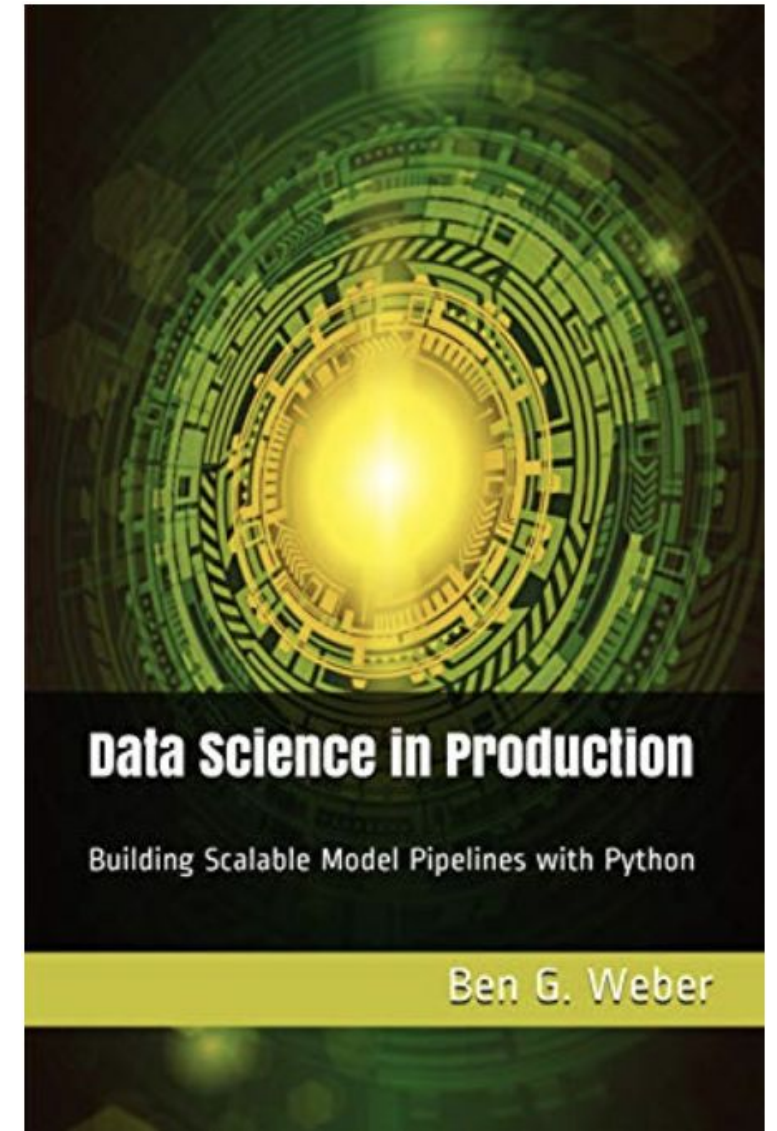
Nikolay Manchev
Principal Data Scientist for EMEA
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Building ML pipelines with Jupyter Notebooks

30 APRIL 2020

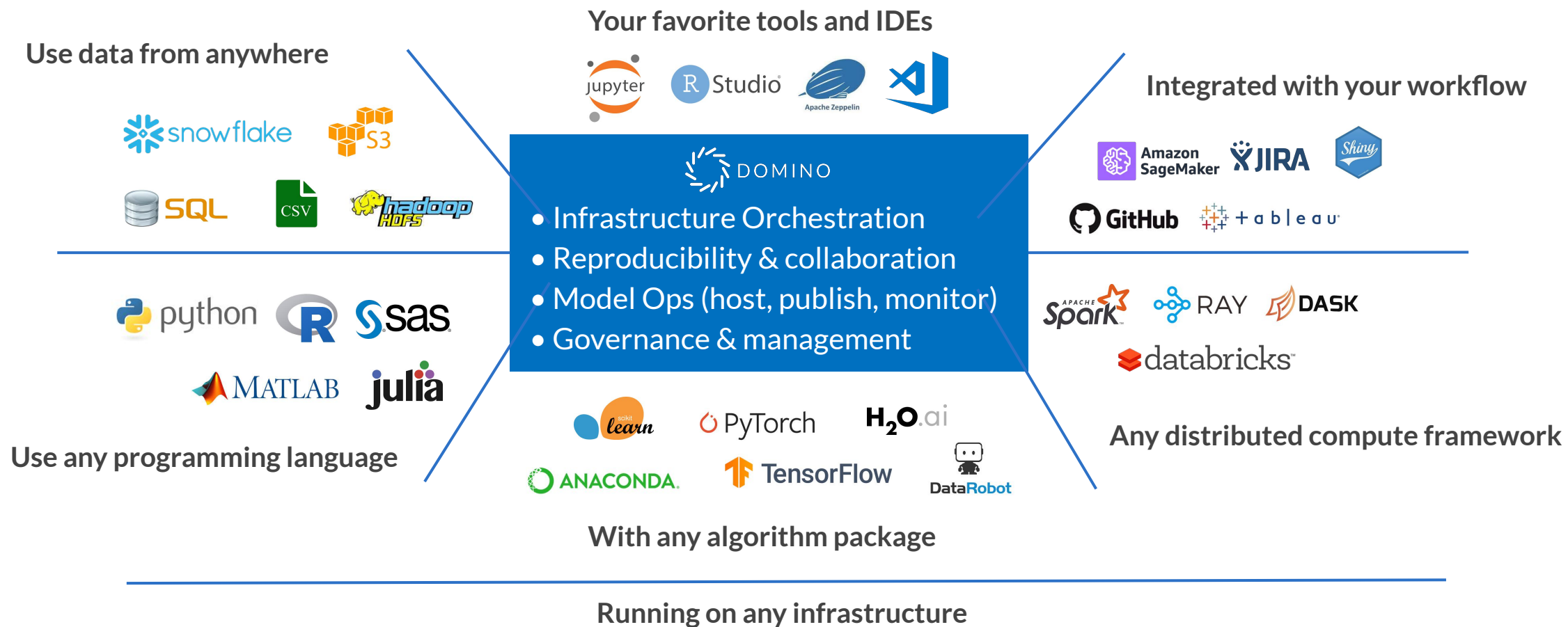
Housekeeping

- Moving to virtual events until the Covid-19 situation is resolved
- Next event - 28th May
- I need your help
 - Speakers
 - Topics
- The slide deck will be available on github
<https://github.com/nmanchev/LondonDSML>
- To get in touch with me use **@nikolaymanchev**
- Prize



Domino is “The Center of the ML Ecosystem”

The gateway to data science infrastructure and the system of record for work





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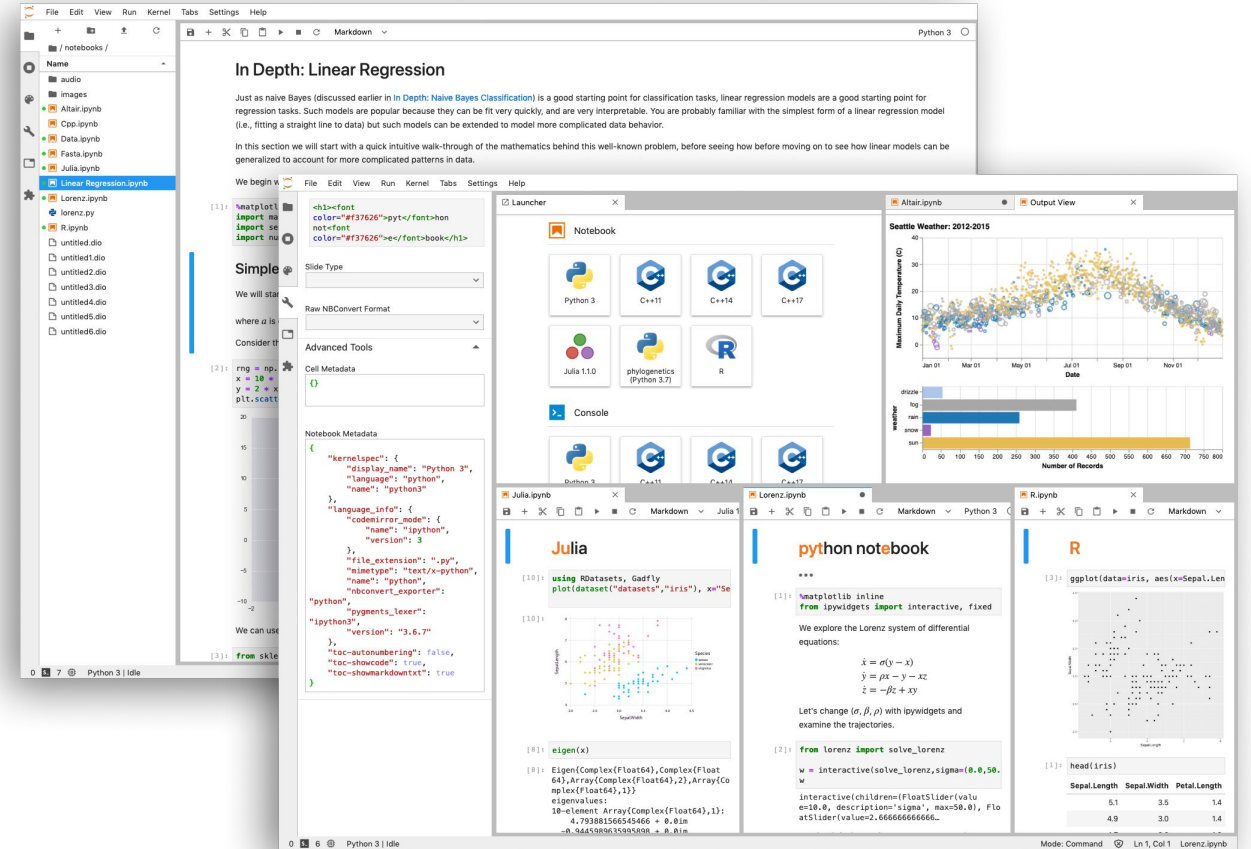
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Why Notebooks

Because they are cool!

- Great for communicating / showcasing
- Secure (kind of)
- Easy to set up
- Always in the toolbox
- Tons of legacy work

not cool



What options are out there

- Manual (the caveman approach)
 - `nbconvert`
- `%run` magic
- Papermill
- Airflow



Papermill

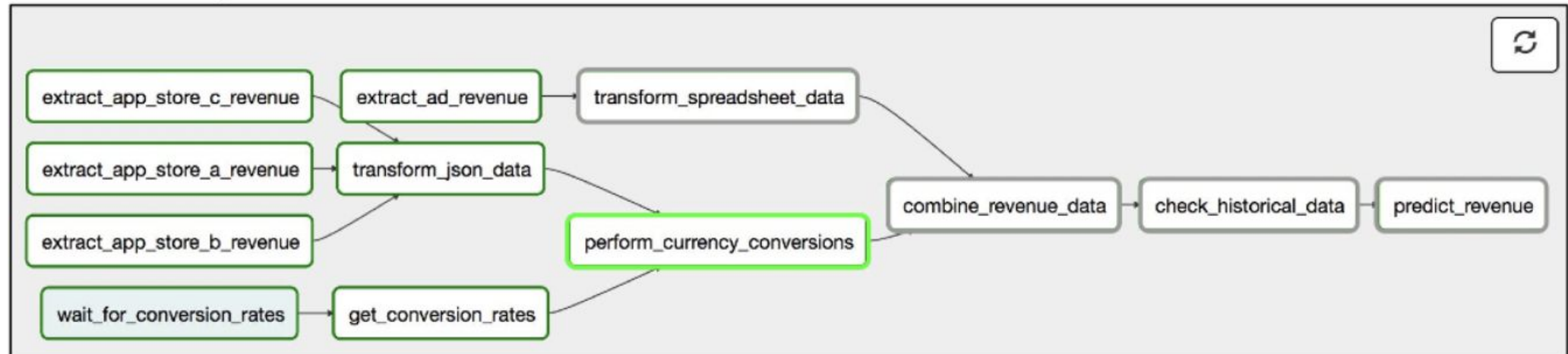


- Installation takes seconds
 - `python3 -m pip install papermill`
- Straightforward mechanism
 - Executing notebooks
 - Parameterising notebooks
- Python API and CLI

Apache Airflow



- Workflows as Directed Acyclic Graphs (DAGs) of tasks



- Hooks (Hive, S3, MySQL, Postgres, HDFS etc.)
- Pools, queues, XCom, variables, SLA's, triggers
- CLI, Python API, REST API

<https://www.meetup.com/London-Data-Science-and-Machine-Learning>



LONDON data science
& machine Learning

Thank You



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