

Data science can, but should not, stand alone

- People want Artificial Intelligence, but only if it is convenient
- 2. All is a inherently a decision-making tool

Name of the game:

How to we enable non-Al literate people to use our results?



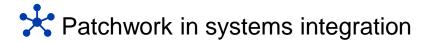
The internet is the ideal delivery platform, although it needs a bit of padding

Relevant use cases for internet as a delivery platform for AI:





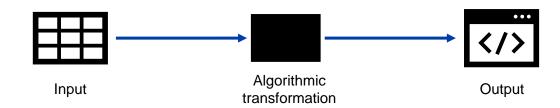




Static models ensure stable content delivery across devices, platforms and locations

– no more notebooks, required IT systems and "It works on my computer"

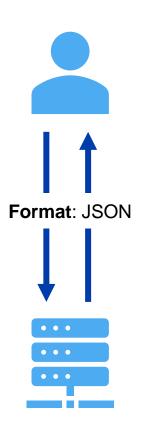
Both the internet and AI takes input, conducts black box transformation and outputs a result:



Information exchange can easily be defined...

APIs return the data you ask for

The HTTP protocol and making *requests*



You send:

URL

Metadata header (Optional) Authentication (Optional) Arguments

You recieve:

Data

Response code Metadata header

GET

Get data without altering it

POST

Modify or add data

... although there are many elements to a web application

ServersideServer configuration

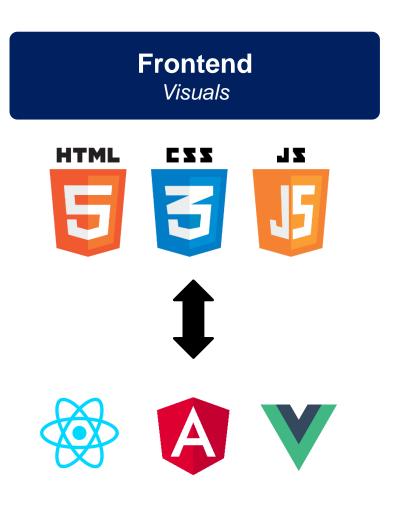




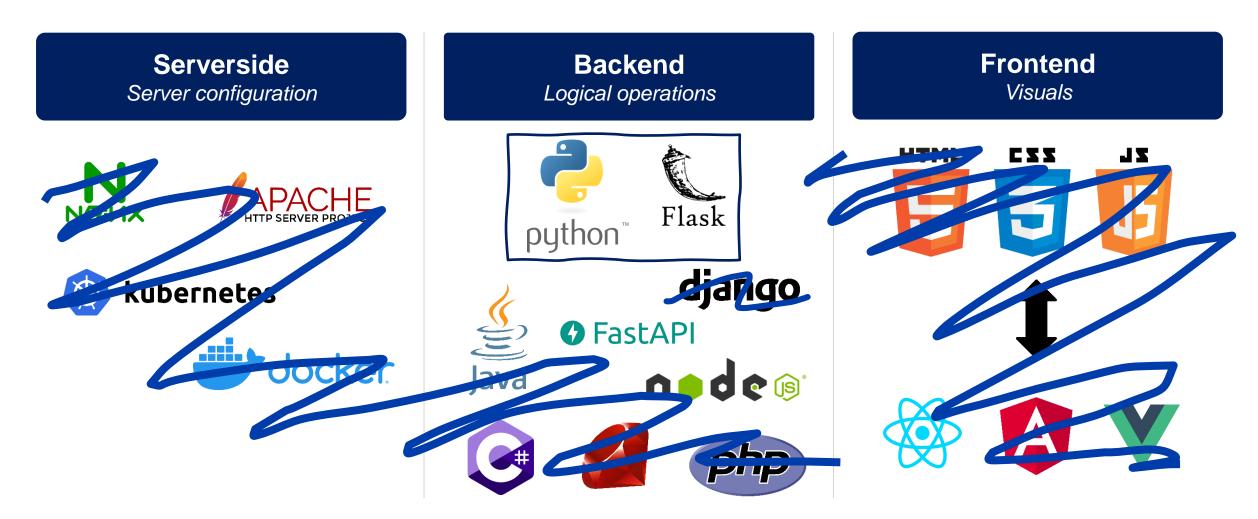








Luckily, we can disregard or outsource many things

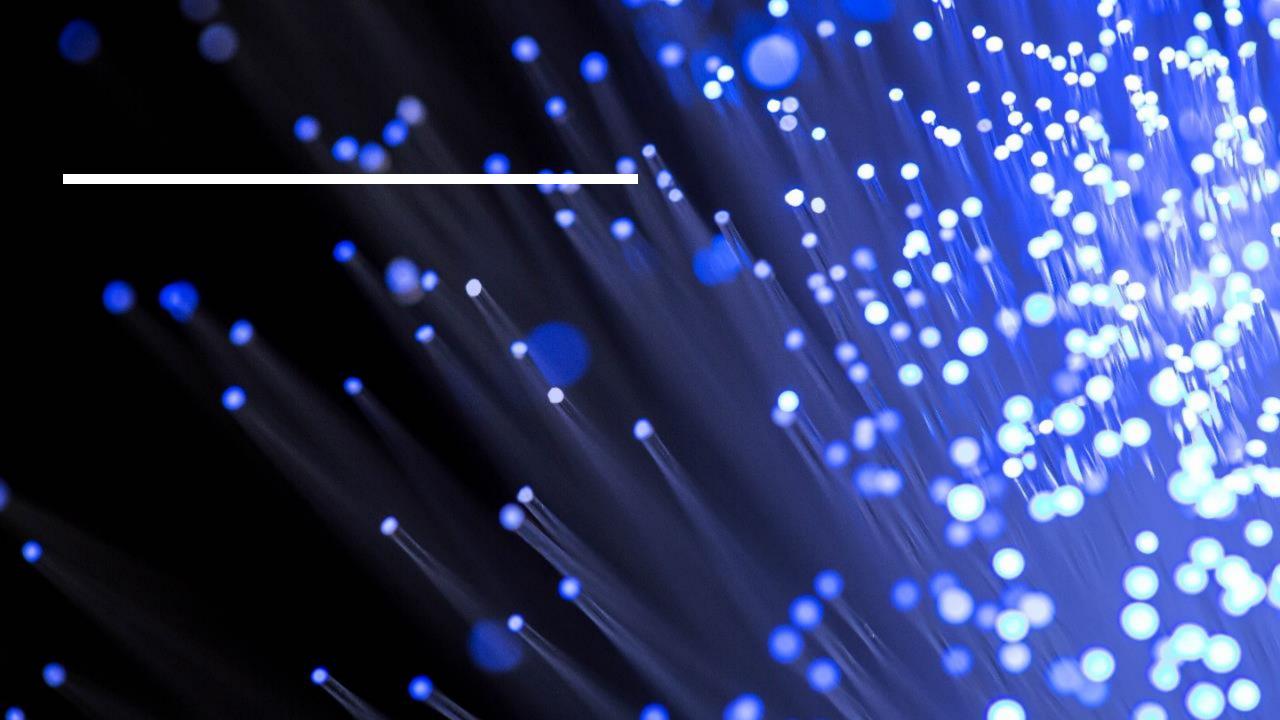


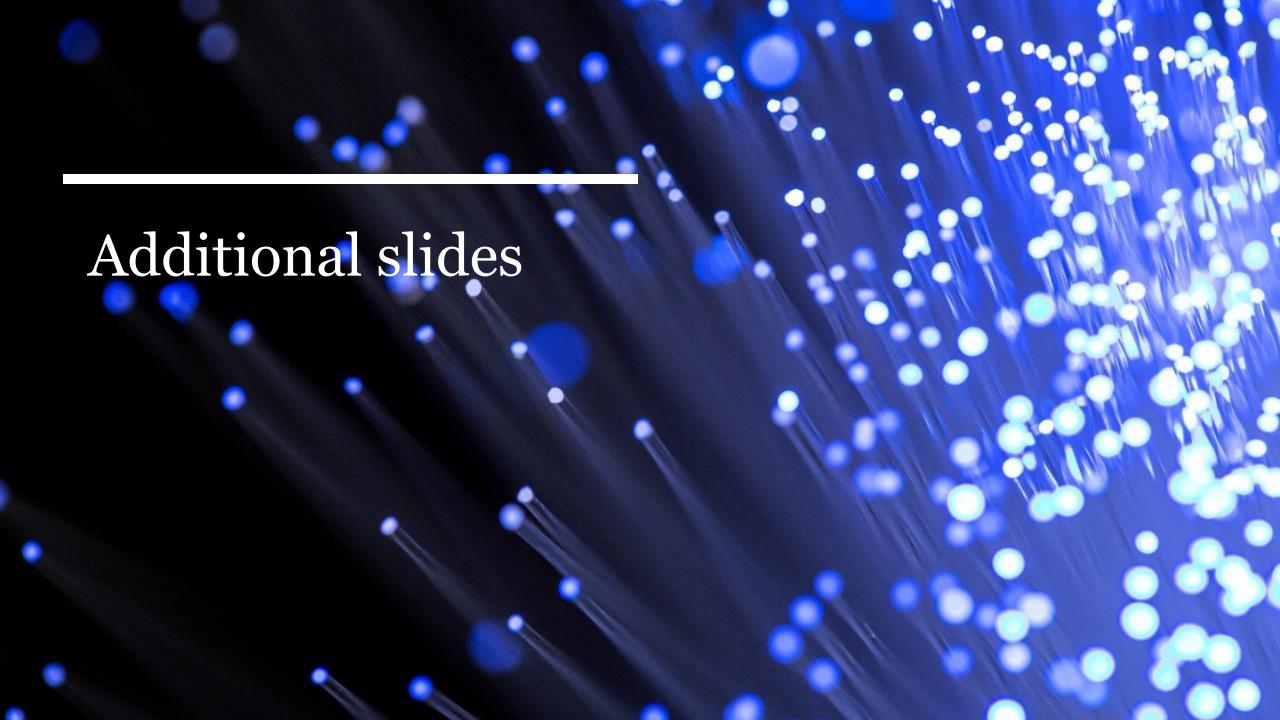
As such, we'll build a stand-alone web application today

- No server side configuration
- Flask web application containing APIs
- Simple HTML page to display results
- Deploy to public url

In short; A fully functional AI service

Al as a Service





Deploying Flask to the public web

General roadmap

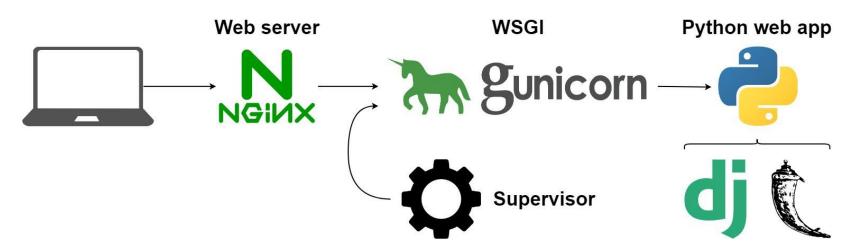
Create the content you want to serve (eg. Static ML model)

Set up server (eg. Python-Flask)

Open gateway for service consumption (eg. APIs)

Deploy to public url (eg. Heroku)

Flask specific



Al as a Service

A Data Scientist should not be a Systems Engineer, although independent micro-apps are powerful

A more advanced example:

https://appliedcoding.net/apps/machine-learning-in-wine/wine_predictor/

Flask deployment to Heroku:

https://www.geeksforgeeks.org/deploy-python-flask-app-on-heroku/

Useful tools:

Git – virtual environments & requirements file – Command line understanding

Al as a Service October 13, 20