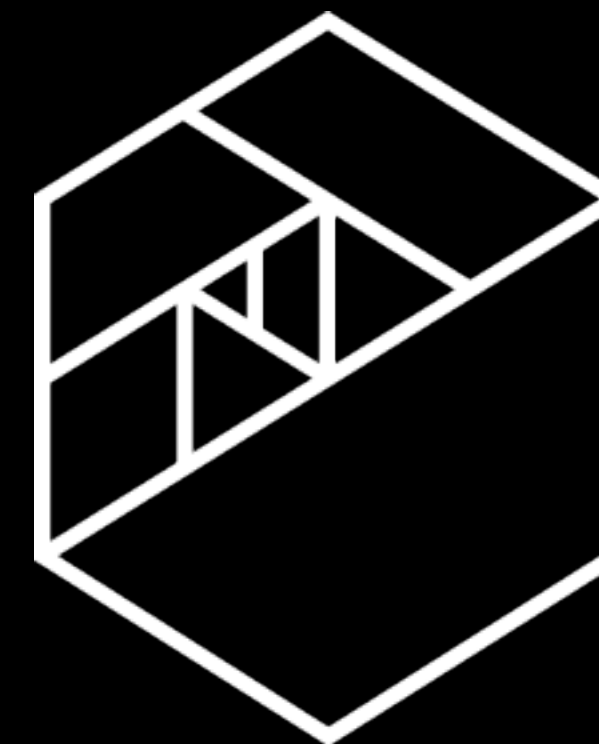


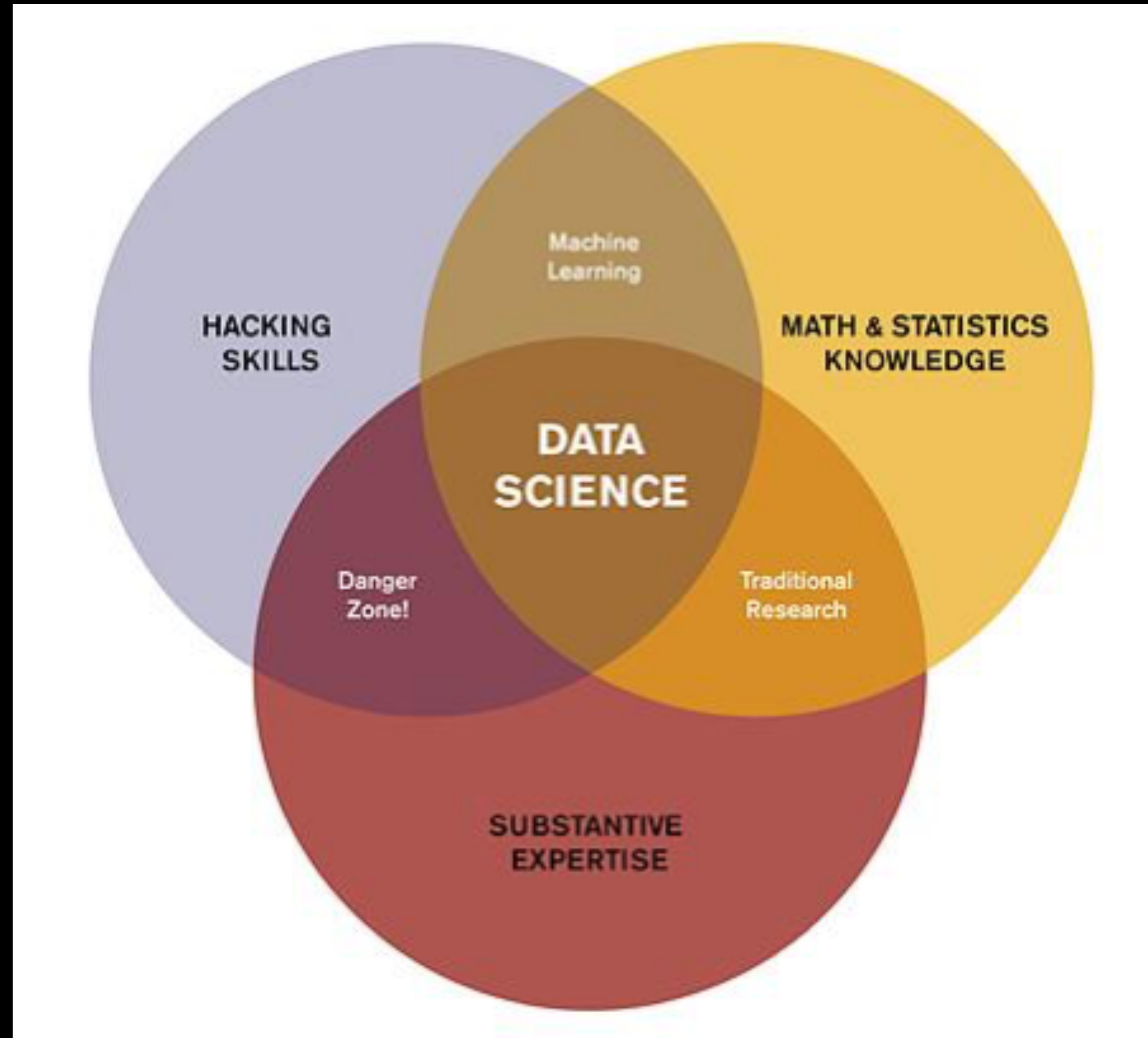
What is a Data Scientist

And how will you become one?



METIS

Skills of a Data Scientist



Skill domains of a data scientist

Statistics / Machine Learning
Programming
Communication
Design



Who can be a data scientist?

Personality Traits

Who can be a data scientist?

Personality Traits

- Curiosity
- Creativity
- Grit

Who can be a data scientist?

Personality Traits

Continuous drive to learn

Creativity

Grit

Who can be a data scientist?

Personality Traits

Continuous drive to learn
Tons of different angles & ideas
Grit

Who can be a data scientist?

Personality Traits

Continuous drive to learn
Tons of different angles & ideas
Ability to push through walls

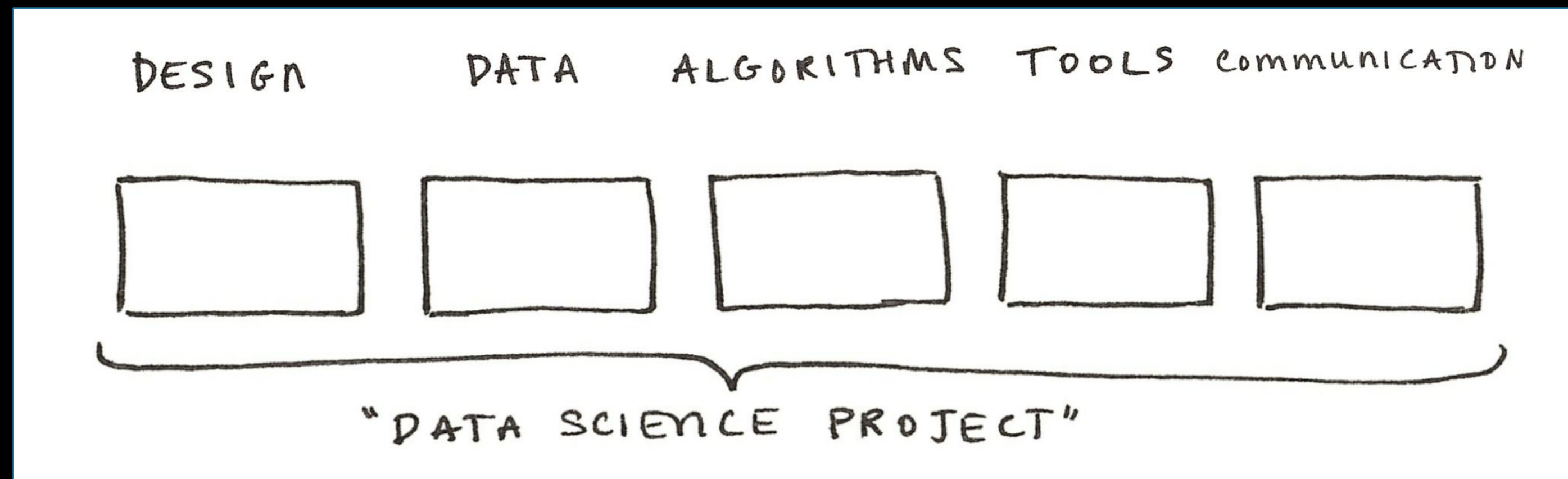
Bootcamp model



Training
Repetition
Culture/community

Training

Project-based model



Training

Obtain

Scrub

Explore

Model

Interpret

Communicate

Training

Obtain

Data acquisition

Scrub

Data exploration

Explore

Domain awareness

Model

Machine learning

Interpret

Statistics

Communicate

Visualization & Web

Training

Tool selection	Comfort & facility with a core toolbox Awareness of options Some curveballs
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Training

Tools

Python when possible

Training

Python, ipython notebook, git/github

Tools

Training

Python, ipython notebook, git/github
BeautifulSoup, selenium, cron

Tools

Training

Python, ipython notebook, git/github

BeautifulSoup, selenium, cron

Tools

(flat files), PostgreSQL, mongoDB

Training

Python, ipython notebook, git/github

BeautifulSoup, selenium, cron

Tools

(flat files), PostgreSQL, mongoDB

numpy, scipy, matplotlib, pandas

Training

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BeautifulSoup, selenium, cron

Tools

(flat files), PostgreSQL, mongoDB

numpy, scipy, matplotlib, pandas

statsmodels, scikit-learn

Training

Python, ipython notebook, git/github

BeautifulSoup, selenium, cron

Tools

(flat files), PostgreSQL, MongoDB

numpy, scipy, matplotlib, pandas

statsmodels, scikit-learn

HTML, CSS, JS, d3.js

Training

Python, ipython notebook, git/github

BeautifulSoup, selenium, cron

Tools

(flat files), PostgreSQL, MongoDB

numpy, scipy, matplotlib, pandas

statsmodels, scikit-learn

HTML, CSS, JS, d3.js

Amazon Web Services, Flask

Training

Python, ipython notebook, git/github

BeautifulSoup, selenium, cron

Tools

(flat files), PostgreSQL, MongoDB

numpy, scipy, matplotlib, pandas

statsmodels, scikit-learn

HTML, CSS, JS, d3.js

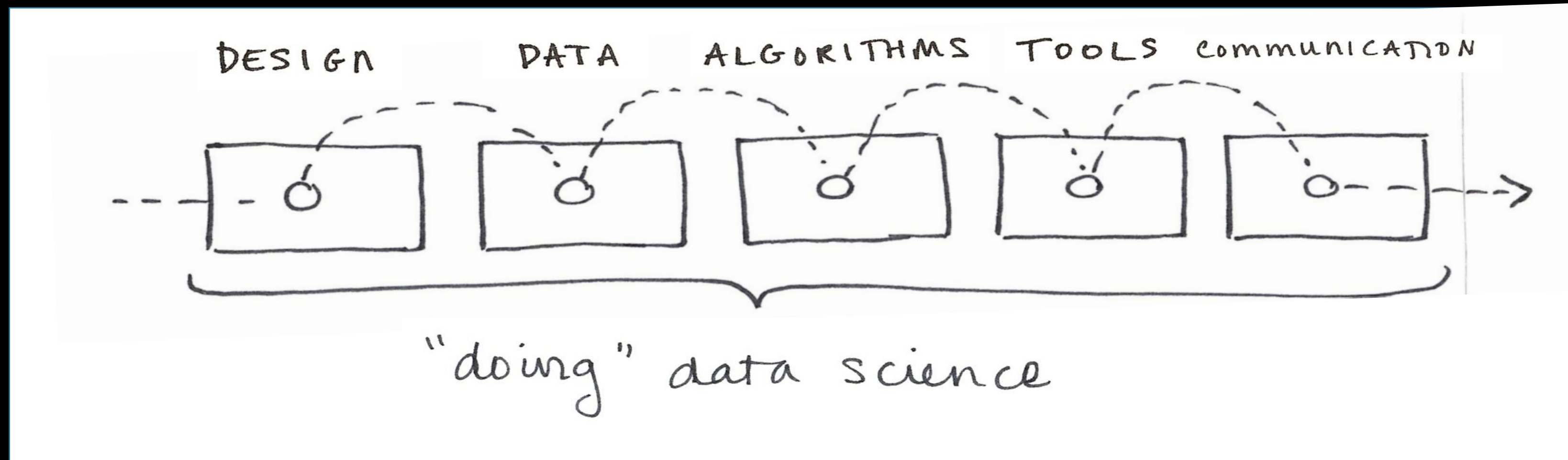
Amazon Web Services, Flask

Google

Repetition

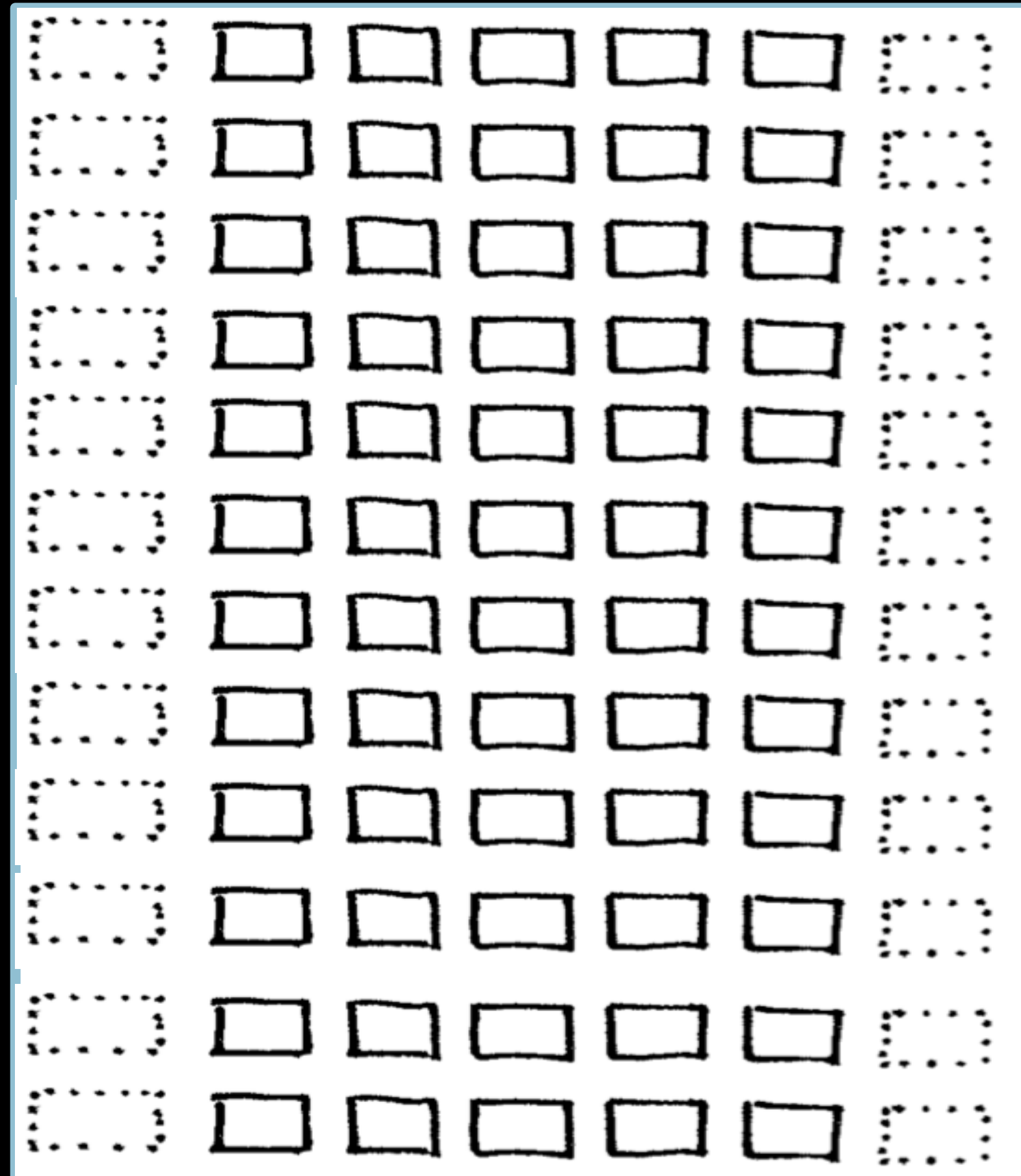
Project-based model

Unit of repetition should be *the practice of doing data science*



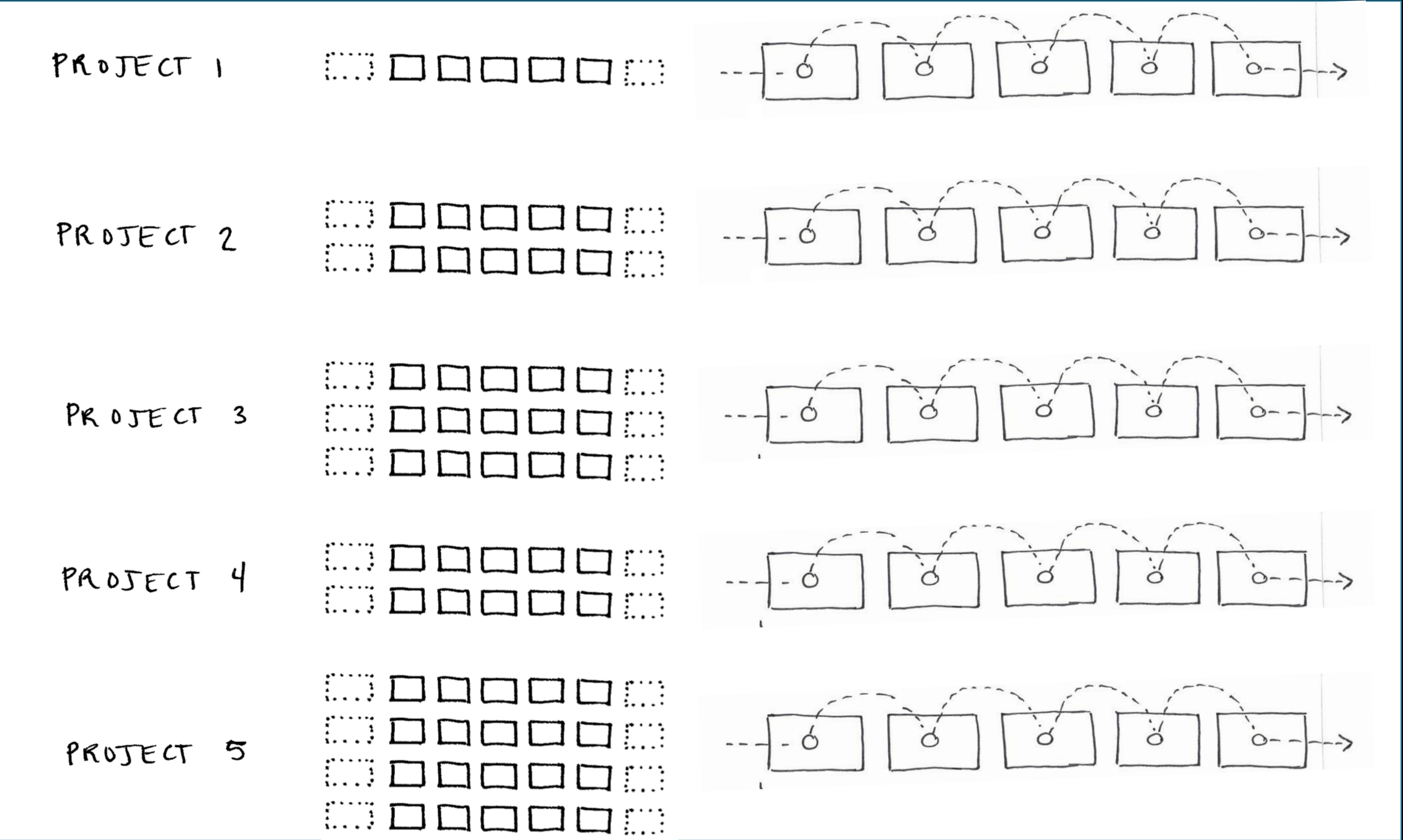
Repetition

Partitioning 12 weeks



Repetition

Partitioning 12 weeks



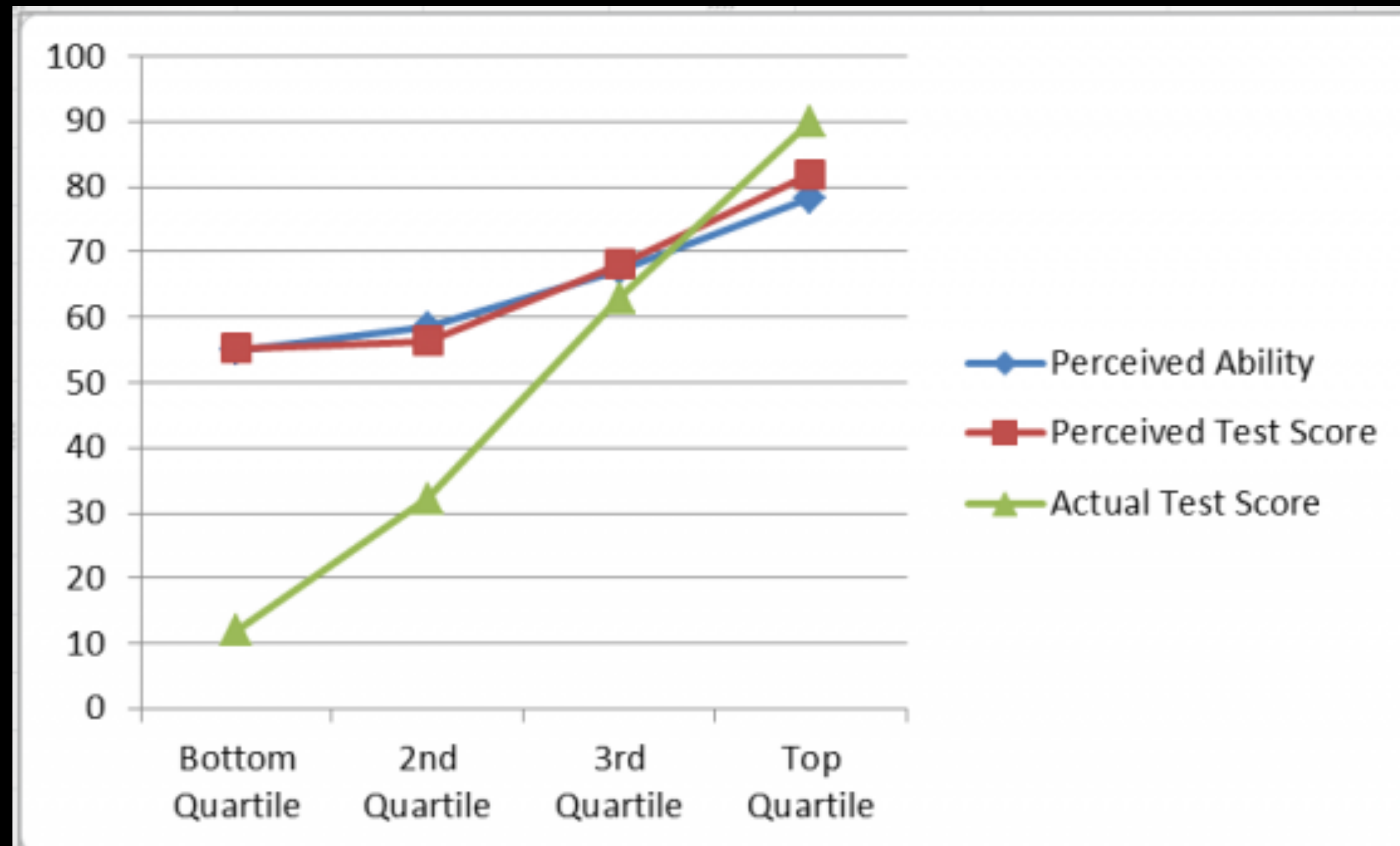
Culture & Community

Must overcome:

Impostor syndrome

Perfectionism

Fighting the Dunning-Kruger effect



Culture & Community

Must overcome:

Impostor syndrome
group work
communication

Culture & Community

Must overcome:

Perfectionism

unfairly short deadlines

jumping into the unfamiliar

presenting projects

Culture & Community

Becoming data scientists

Mixture of group and individual work

Guest speakers and meetups

Hiring partners