



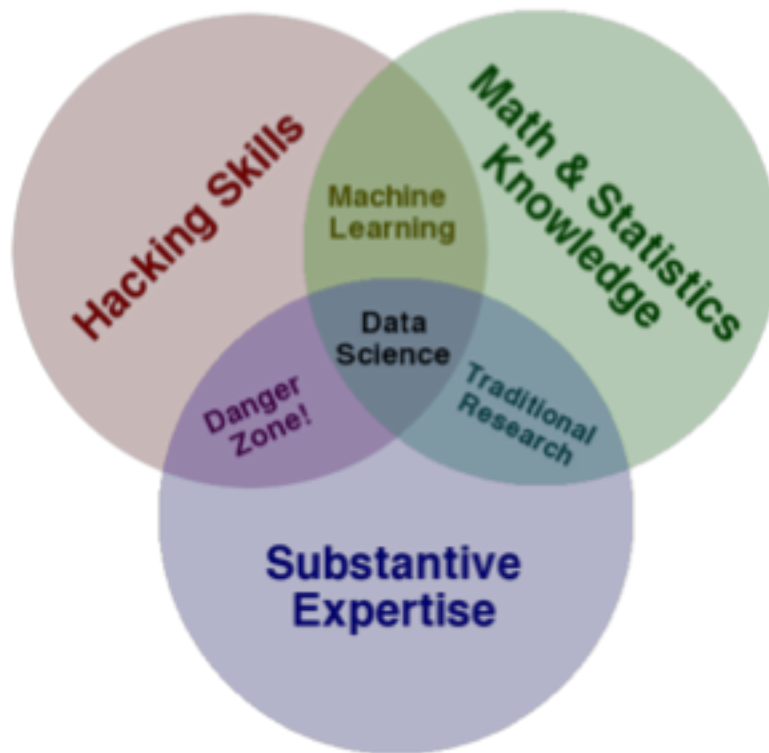
METIS

Welcome to Bootcamp!

What is a data scientist?
And how will you become one?

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The Data Science Venn Diagram



Skill Domains of a Data Scientist



- **Math & Machine Learning**

Probability, Statistics, Linear Algebra, Calculus, Machine Learning Algorithms

- **Programming**

Programming Skills

- **Communication**

Communication Skills, Design Skills, Domain Expertise

Personality Traits of a Data Scientist



- **Curiosity**

Continuous drive to learn

- **Creativity**

Looking at problems from different angles and ideas

- **Grit**

Ability to push through walls

Personality Traits of a Data Scientist



- **Integrity**

Be honest

- **Humility**

Be humble

- “If you don’t understand something, **be honest** and let us know.
If you do know something really well, **be humble** and teach others.”

For the next three months, you will have...



- Focused Time
- Peer & Community Support
- Experienced Instructors
- Career Support

The Bootcamp Model

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1. Training
2. Repetition
3. Culture & Community

1. Training

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1. Training: Skills



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1. Training: Skills



Obtain

Scrub

Explore

Model

iNterpret

Communicate

1. Training: Skills



Obtain – Data Acquisition

Scrub – Data Cleaning

Explore – Data Exploration, Statistics

Model – Machine Learning

iNterpret – Domain Expertise

Communicate – Data Visualization, Storytelling

1. Training: Tools



Python when possible

Comfort with core toolbox

Awareness of other options

1. Training: Tools



Python, Jupyter Notebook, Git / Github

pandas, numpy, matplotlib, seaborn

statsmodels, scikit-learn

Beautiful Soup, Selenium

(Flat Files), PostgreSQL, MongoDB

Amazon Web Services

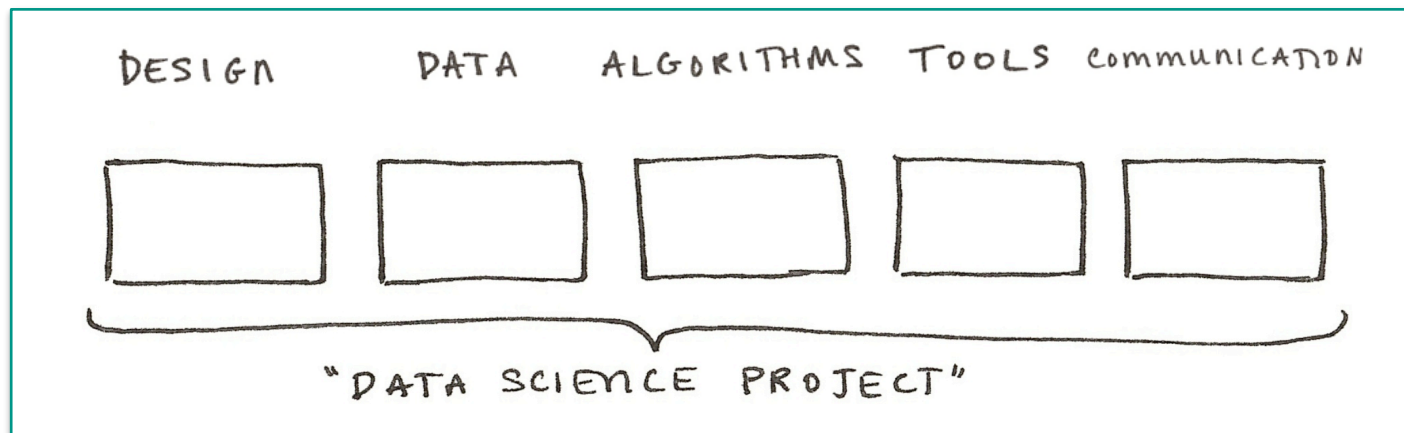
HTML, CSS, Flask

Google

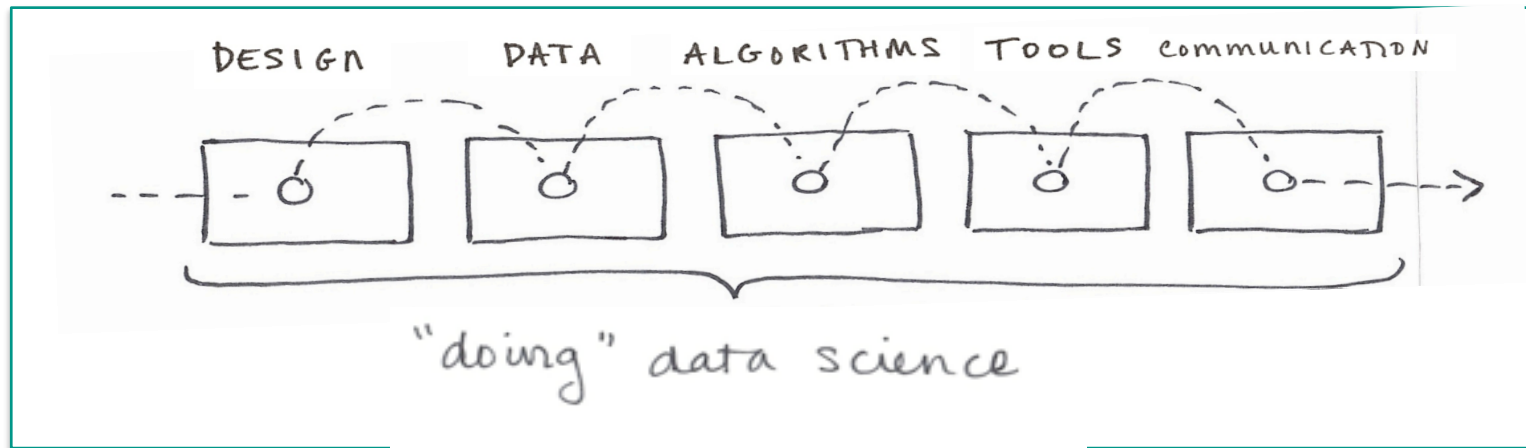
2. Repetition

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2. Repetition: Project-Based Model

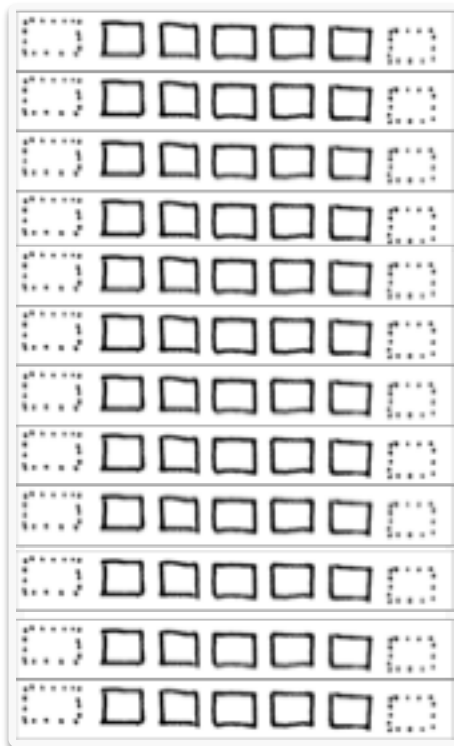


2. Repetition: Project-Based Model

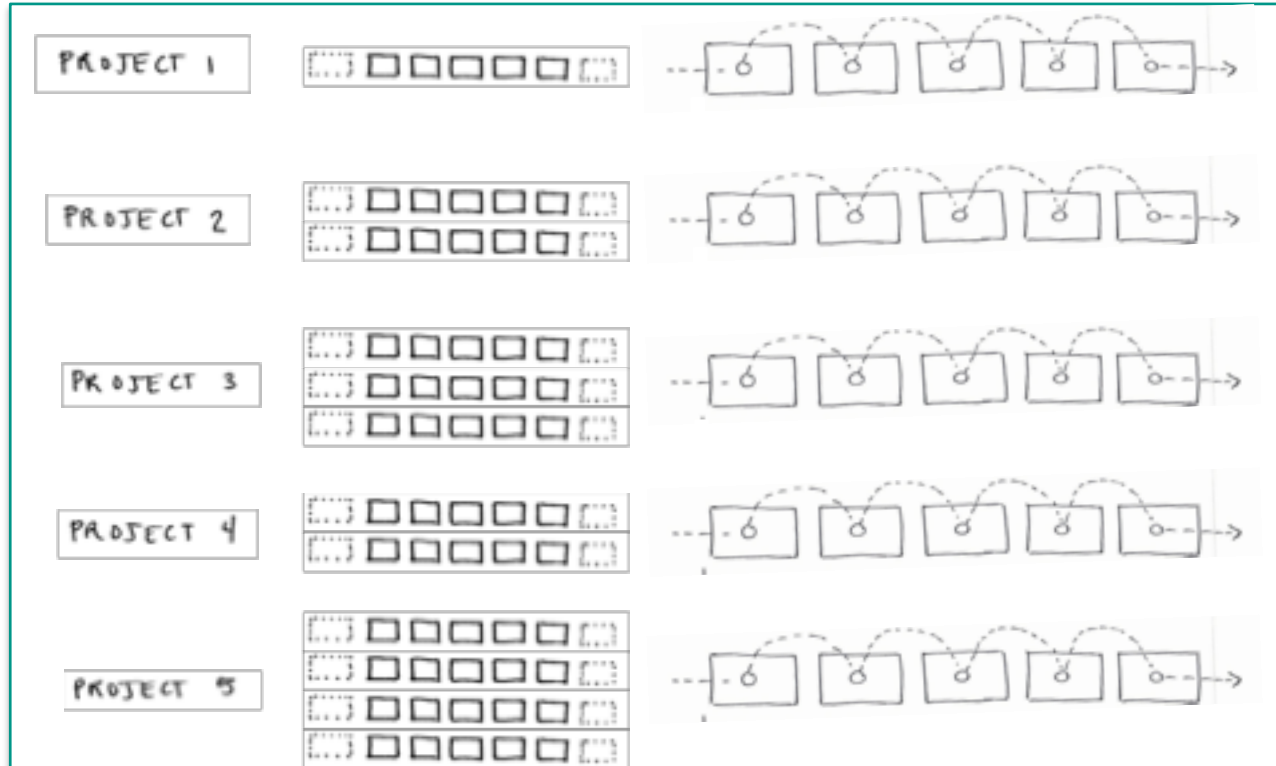


Unit of repetition = the practice of doing data science

2. Repetition: Partitioning 12 Weeks



2. Repetition: Partitioning 12 Weeks



3. Culture & Community

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3. Culture & Community

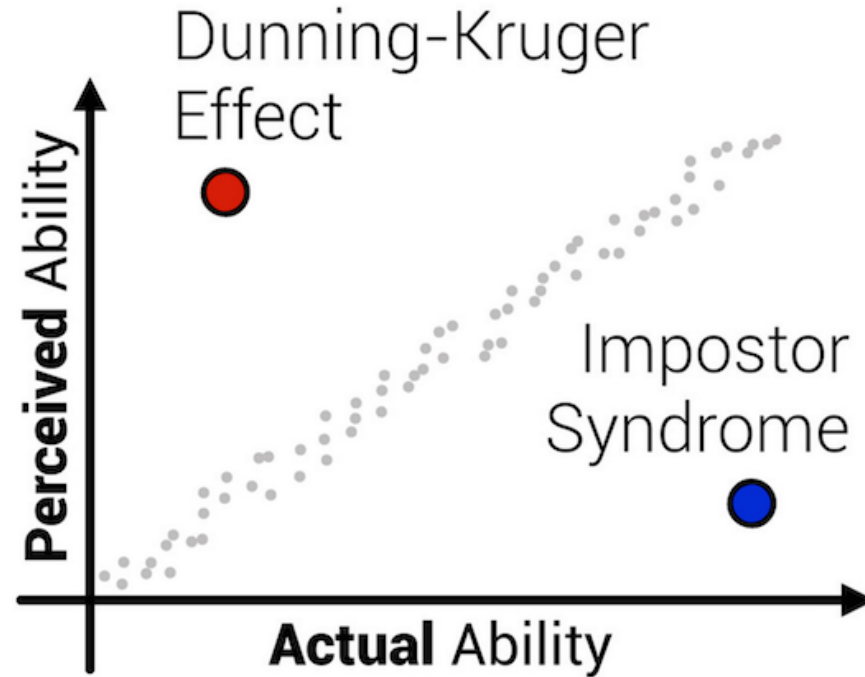


You must overcome two things:

1. Imposter Syndrome

2. Perfectionism

3. Culture: Imposter Syndrome



3. Culture: Imposter Syndrome



You must overcome two things:

1. Imposter Syndrome

Group work

Communication

2. Perfectionism

3. Culture: Perfectionism



You must overcome two things:

1. Imposter Syndrome

Group work

Communication

2. Perfectionism

Unfairly short deadlines

Jumping into the unfamiliar

3. Community: Becoming Data Scientists



Mixture of individual and group work

Instructors, Program Manager and Career Advisor support

Guest speakers and Meetups

Hiring partners

Metis alumni network



“ ”

“The classroom instruction, project work, and resources offered through the career counseling and continued alumni support is invaluable. I was exhausted every day, but I woke up looking forward to every day.”

– Metis Alumni

QUESTIONS?
