

Introduction & Jupyter Notebooks

Data-X Lecture 2 Spring 2019

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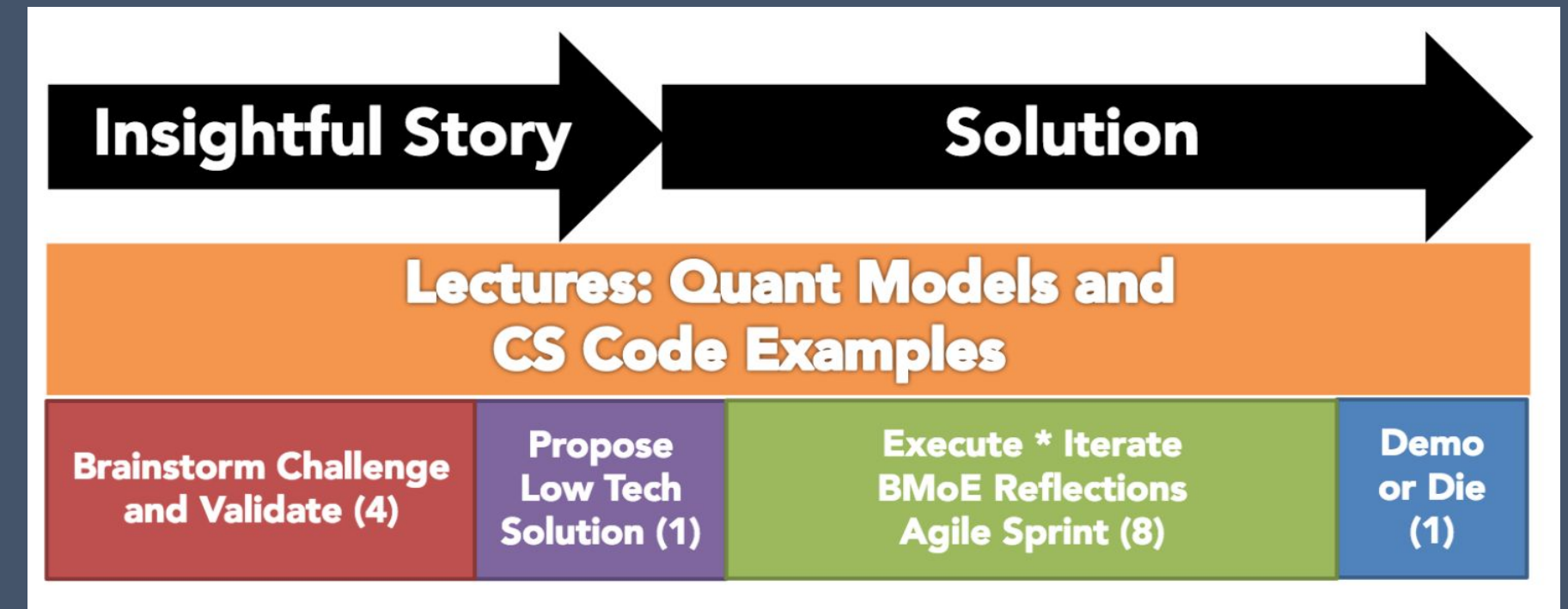
Berkeley
UNIVERSITY OF CALIFORNIA

PLAN FOR TODAY

- **2.10 - 2.20: Project explanation**
- **2.20 - 2.30: Project Pitches**
- **2.30 - 3.30: Intro to Tools & Notebooks**

Data-X: Project

- **Totally Open-ended!**
 - Collab with mentor
 - Find your own mentor
 - Come up with your own project
- **Groups of 5 (at most 6, at least 4)**
- **First four weeks: Don't code.**
=> Lowtech demo.



Find examples at data-x.blog/projects

Project Categories:

Business Use Case	Social Impact	It's Just Cool
System Improvement	Improve Data Pipeline	Novel Research

Amazon Alexa Project Pitch

Amazon Alexa Project

Project Summary:

The SCET has received a grant from Amazon to explore the possibilities with voice interfaces and speech technology

State of the project:

- Prototype for Alexa skill
- Started working on Alexa educational material
- Received devices (Echo show and Echo dot)

Potential Projects:

- Extend Berkeley specific skill to do cool stuff
- Develop educational material
- Experiment with hardware

Alexa Innovation Fellowship

Inspiring and enabling student entrepreneurs to enhance their products with Alexa

≡ FORTUNE

Amazon Alexa Fellowship Program Is Heading to 14 More Uni...

The online retail giant said on Wednesday that it plans to award fellowships to graduate students and faculty members at schools like Carnegie Mellon University, Johns Hopkins University, Dartmouth College, and the University of California, Berkeley. The 18 universities marks a major increase from last year, when the Alexa Fellowship program debuted with four schools.



amazon alexa

Data-X Tools & Resources

Cloud Credits

Datacamp

Python Bootcamp

Course Textbook

Github + course repo

Install instructions

Cloud Credits

AWS: \$100 sign up
+ package \$2k for 2 years

Google Cloud: \$300 sign up
+ 6 * \$50 in cloud credits

Email afo@berkeley.edu if you need them.



Datacamp.com

Interactive online learning platform
(programming, data science etc)

We have received premium accounts
that will be valid until June.

Sign up at data-x.blog/resources (at the bottom)



Python Bootcamp

14 videos (approx 14hrs) of wonderful
Python tutorials.

Highly recommended!

Find the link at data-x.blog/resources

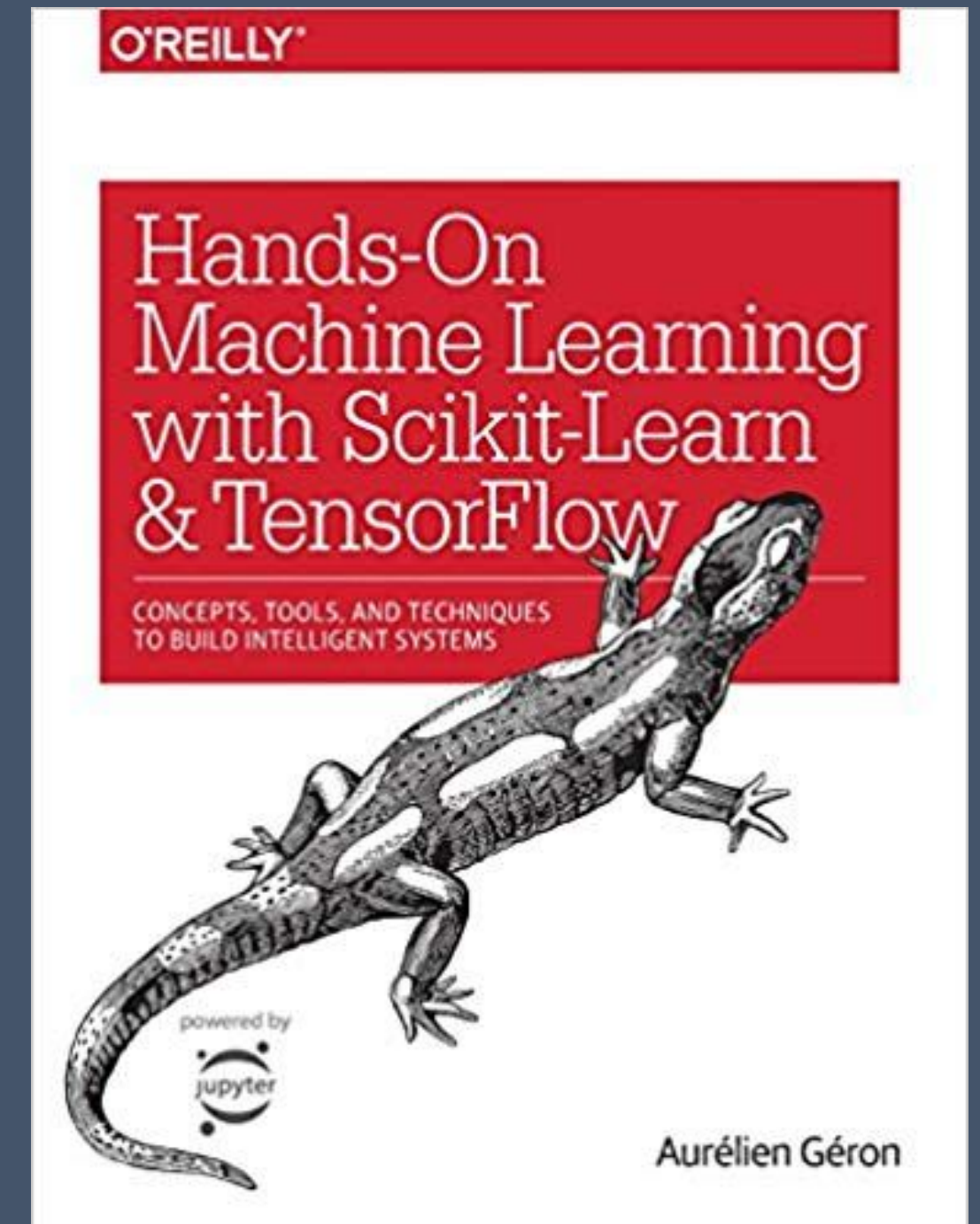


(Informal) Course Textbook

Hands-On Machine Learning with Scikit-Learn and TensorFlow

Not mandatory, but highly
recommended!

Find the link at data-x.blog/syllabus



Github

Everyone should register for a Github account, will be needed to turn in HWs.

education.github.com/

All material will be published in this repo
github.com/ikhlaqsidhu/data-x



Install Instructions

Change slide set...

Thanks!



Attendance Form:

tinyurl.com/y7z8pqrz