# Introduction to the Project, Tools, and Resources

*Data-X Lec 2 Sp19*

**Alexander Fred-Ojala**
Research Director, Data Lab
SCET, UC Berkeley

Pantas and Ting
Sutardja Center
for Entrepreneurship & Technology
Berkeley Engineering

Berkeley
UNIVERSITY OF CALIFORNIA

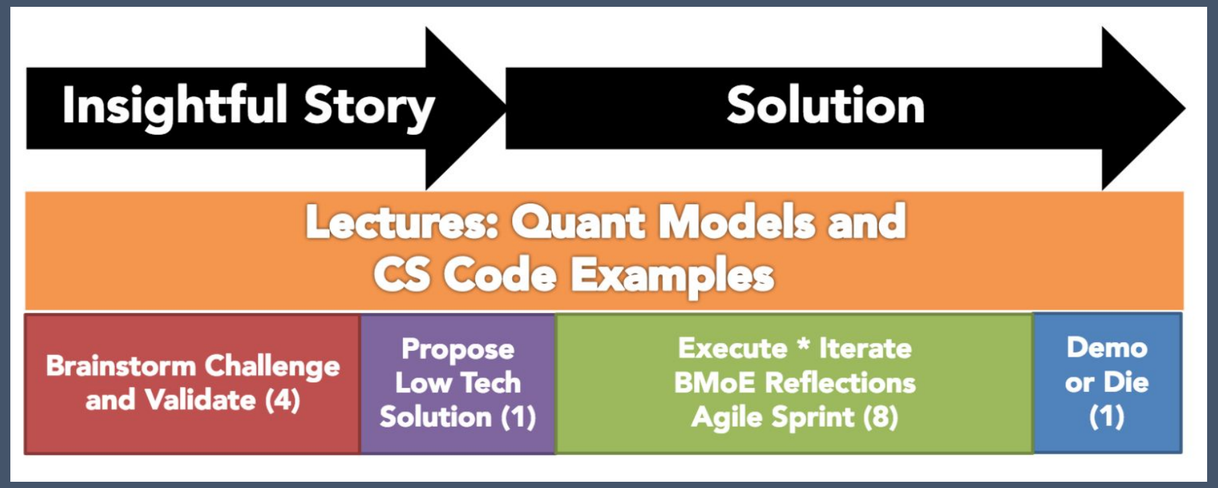
# PLAN FOR TODAY

- 2.10 - 2.20: Project explanation
- 2.20 - 2.30: Project Pitches
- 2.30 - 3.00: Intro to Resources
- 3.00 - 3.30: Intro to 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

# Paradigm & Tradery pitches

# Amazon Alexa pitch

# Amazon Alexa Project

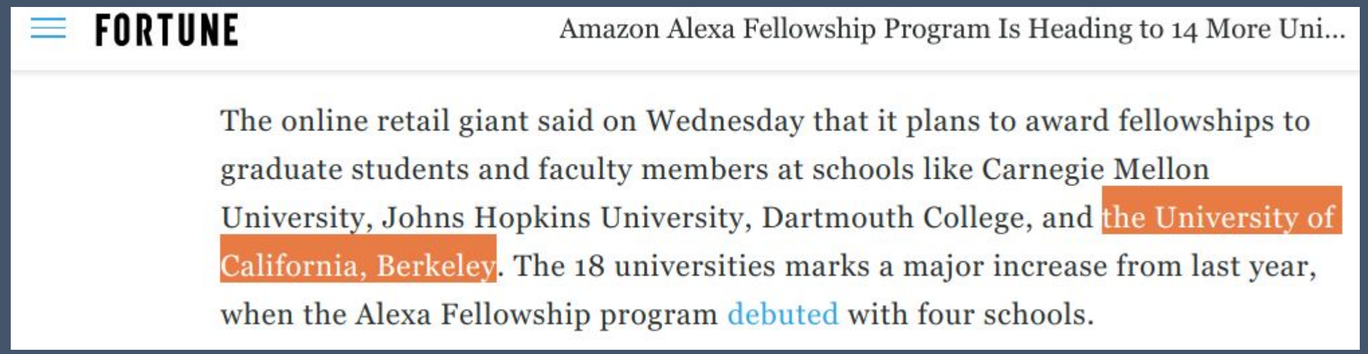
**The SCET was awarded the Amazon Alexa Innovation Fellowship 2018/2019 to help improve the Alexa ecosystem.**

## State of the project:

- Prototype of Berkeley specific Alex skill
- Created Alexa edu material
- Received devices and funding (Echo show and Echo dot)

## Potential Projects:

- Extend Berkeley specific skill
- Develop educational material
- Create a novel product or service utilizing 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

Email interest to afo@berkeley.edu

# Data-X Tools & Resources

**Cloud Credits**

**Datacamp**

**Python Bootcamp**

**Course Textbook**

**Github + course repo**

**Install instructions**

# Data-X website

**data-x.blog**

- Office Hours
- Current Syllabus
- Piazza
- Additional resources

# 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 free 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!

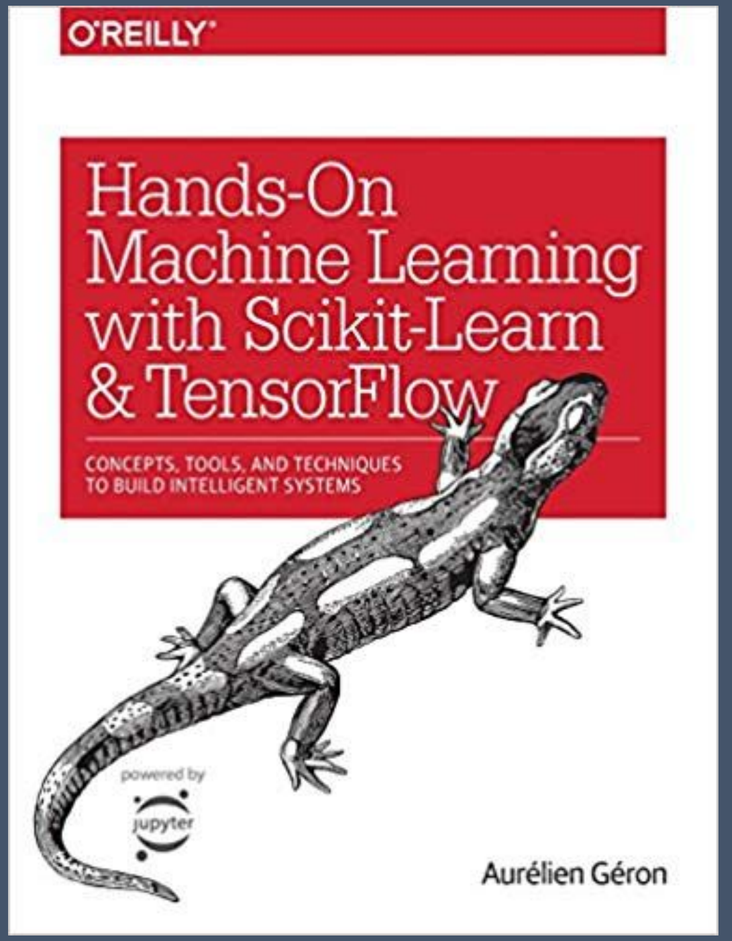
Find the link at data-x.blog/resources

# (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.**

Do it at: education.github.com/

All course material will be pushed to this repo:
gitub.com/ikhlaqsidhu/data-x

Here are Github Setup instructions:
https://github.com/ikhlaqsidhu/data-x/blob/master/00-install-anaconda-git-docker/github-account-repo-setup_v3.md

# Anaconda Install Instructions

## Change slide set…

**Link to install instructions:**
https://github.com/ikhlaqsidhu/data-x/blob/master/00-install-anaconda-git-docker/anaconda_install_instructions_v3.pdf

Berkeley
UNIVERSITY OF CALIFORNIA

Pantas and Ting
Sutardja Center
for Entrepreneurship & Technology
Berkeley Engineering

# Thanks!

**Attendance Form:**
tinyurl.com/y7z8pqrz