

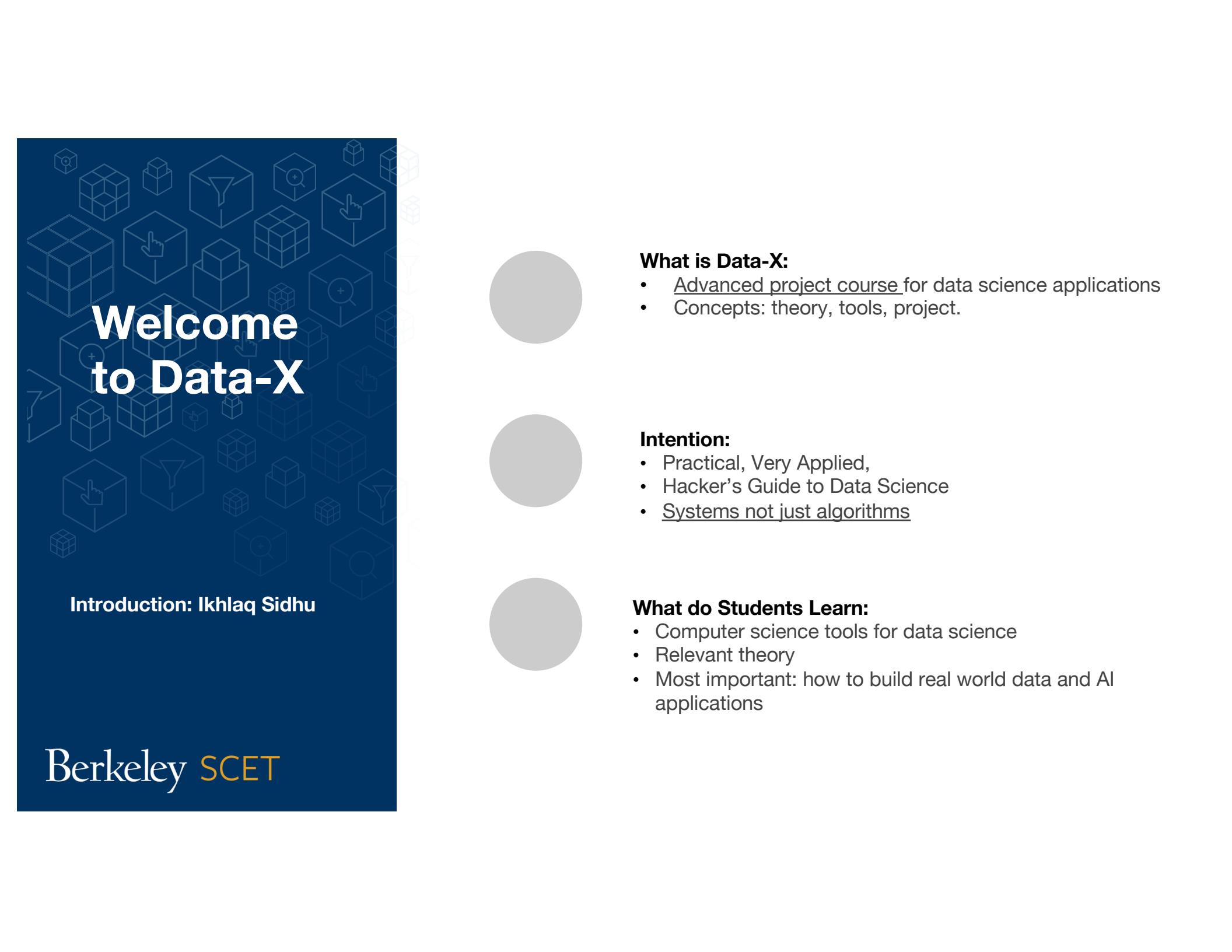


DATA X

Introduction to Data-X
Applied Data Science with Venture Applications
Data, Signals, & Systems

Ikhlaq Sidhu, UC Berkeley

Berkeley SCET



Welcome to Data-X

Introduction: Ikhlaq Sidhu

Berkeley SCET

What is Data-X:

- Advanced project course for data science applications
- Concepts: theory, tools, project.

Intention:

- Practical, Very Applied,
- Hacker's Guide to Data Science
- Systems not just algorithms

What do Students Learn:

- Computer science tools for data science
- Relevant theory
- Most important: how to build real world data and AI applications

Data-X Course Philosophy



Make the Tools



Use State-of-the-Art
Open Source Tools



Architect
the System



Sell, market, and
pitch the product

Most CS / Math

Data-X

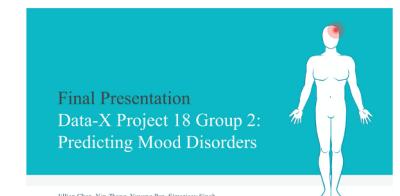
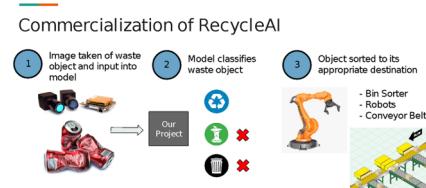
Business Topics

Data-X Project Examples

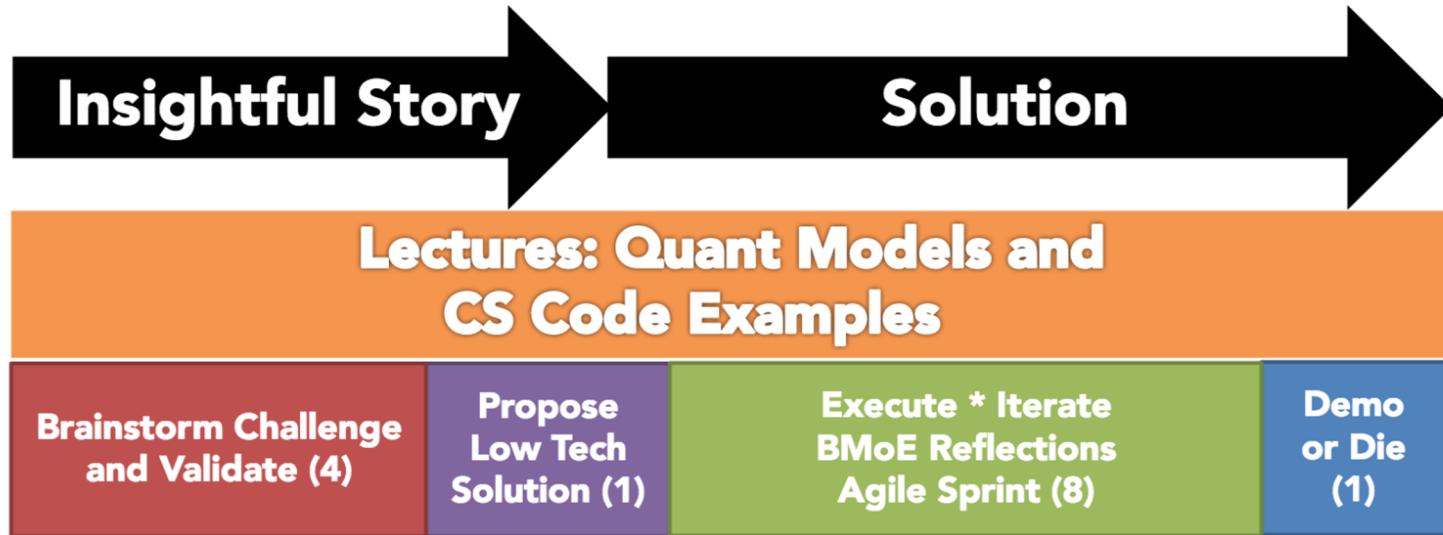
Prediction, Classification, Automation:

- Detection of fake news
- Prediction of long-term energy prices
- Automatic recycling through image recognition
- AI for crime detection, traffic guidance, medical diagnostics, etc.
- A version of Zillow that is recalculated with the effects of AirBnB income
- Signal processing and pattern analysis to improve earthquake warning systems
- Early Autism Detection
- Secure Health Records stored on a Blockchain

find many, many more at: data-x.blog



Course Overview



Open-ended, real-world project:

Typically 5 students, with available advisor network

What is next?

Get your Notebook/development environment working

See the project module to get started with initial project ideas

Discuss the next steps in class session:

- Key dates
- Final project presentation dates



End of Section