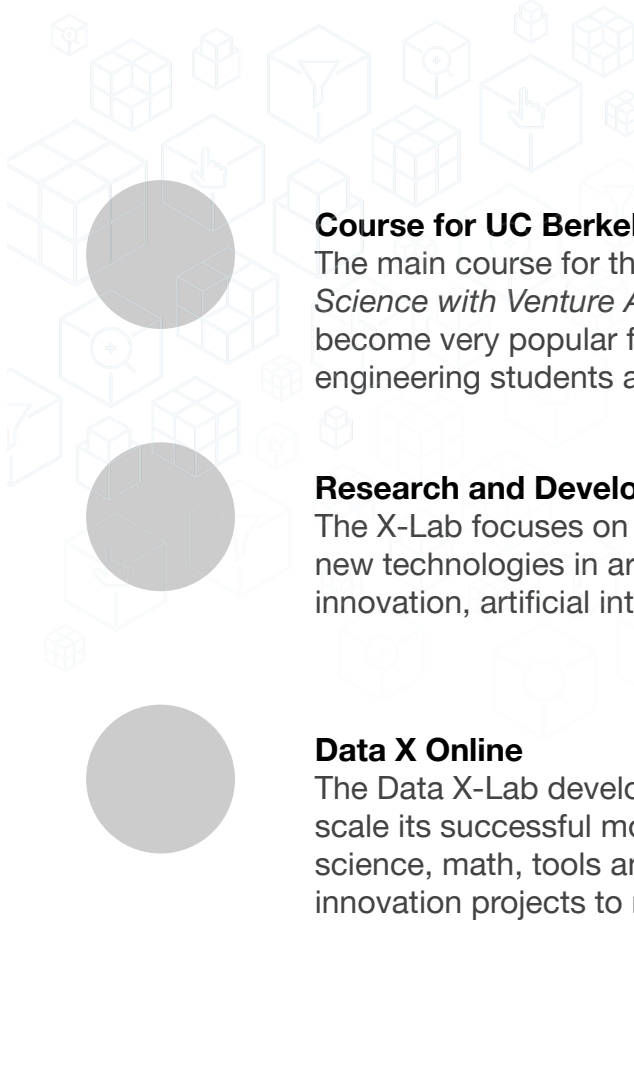


DATA



Data X-Lab

Key activities of the Data
X-Lab at the University of
California, Berkeley



Course for UC Berkeley students

The main course for the Data X-Lab is *Applied Data Science with Venture Applications*. The course has become very popular for undergraduate and masters engineering students and serves 300+ students per year.

Research and Development

The X-Lab focuses on innovation research that utilizes new technologies in areas such as psychology of innovation, artificial intelligence, 5G, and data science.

Data X Online

The Data X-Lab developed an online course in 2020 to scale its successful model of teaching the latest data science, math, tools and approaches to creating innovation projects to reach students around the world.

Highlights

2016

Ikhlaq Sidhu, SCET director and UC Berkeley professor announces a new course for Spring 2017: **Data-X: A Course on Data, Systems and Signals**. The technical course teaches students foundational mathematical concepts and computer science tools with applications in real-world problems. The course is very popular and leads to the creation of the **Data X-Lab**.

2017

Data X-Lab launches the **Berkeley Innovation Index** and related tools to help entrepreneurs better understand their own psychology and ability to innovate. The initiative has since expanded to assess team dynamics, emotional quotient and grit among other factors important in venture creation.

2018

The Fall 2018 Data X-Lab hosts a [poster session](#) at the UC Berkeley Hearst Memorial Mining Building to showcase more than fifty data science innovation projects applying data science and artificial intelligence tools to a variety of industries including addressing fake news, predicting cryptocurrency prices, mental health, and many others.

Highlights

2019

Data-X partners with **GSM Association**, an industry organisation that represents more than 1150 companies in the broader mobile ecosystem to work with students on **5G and AI industry projects**. Students leverage 5G with projects including **real-time fire detection**, a **recycling bin that automatically sorts using AI**, and an **app that uses AI to detect coronavirus in essential workers**.

2020

Data X-Lab launches **Data-X Online**, democratizing access to its popular course. The Data X-Lab course *Applied Data Science with Venture Applications*, is re-designed to provide free access to its videos, slides, code, and resources on a single website, **datax.berkeley.edu**, helping students anywhere in the world teach themselves the latest data science, tools, algorithms and approaches for creating cutting-edge innovation projects.

2020

The Fall 2020 Data X cohort [announces its top projects](#), which include Kinesis.ai, a **faster, cheaper and smarter rehabilitation experience**, GGWP, an application that uses machine learning to **improve gaming by identifying and reducing toxic behavior**, and Anchain.ai Bitcoin Prediction, a team using machine learning to **help Bitcoin investors make more reliable investment decisions** while minimizing risk.

“My guiding principle for developing Data-X was to create a course that I would personally want to take. We want to give students the most useful approaches that are used in industry today and let them practice these approaches by creating a truly innovative project.”

- **Prof. Ikhlaq Sidhu**



How the Data-X Course Works:

Insightful Story



Solution

Lectures: Quant Models and CS Code Examples

Brainstorm
Challenge and
Validate

Propose
Low-Tech
Solution

Execute and Iterate
BMoE Reflections
Agile Sprint

Demo or
Die!

Featured Project: Anchain.ai Bitcoin Prediction



Watch the Anchain.ai pitch: <http://bit.ly/3bI2L5z>

See more Data-X projects: <https://datax.berkeley.edu/projects/>

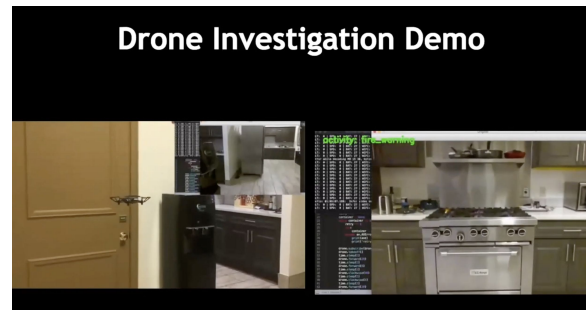
Featured Project: Kinesis.ai



Watch the Kinesis.ai pitch: <http://bit.ly/2Nand4X>

See more Data-X projects: <https://datax.berkeley.edu/projects/>

Featured Project: Drone 200 (5G Fire Detection)



Watch the Drone 200 pitch: <https://youtu.be/-k-oUyGp6Zk?t=670>

See more Data-X projects: <https://datax.berkeley.edu/projects/>

"DataX is a very rare data science course that prepares students ready to be real world data scientists. AnChain.ai has hired great talents from the DataX course, and we are excited to see they are applying the DataX philosophy to challenging machine learning problems, not just from how to code up deep learning SGD solver, but also from the business and product perspective."

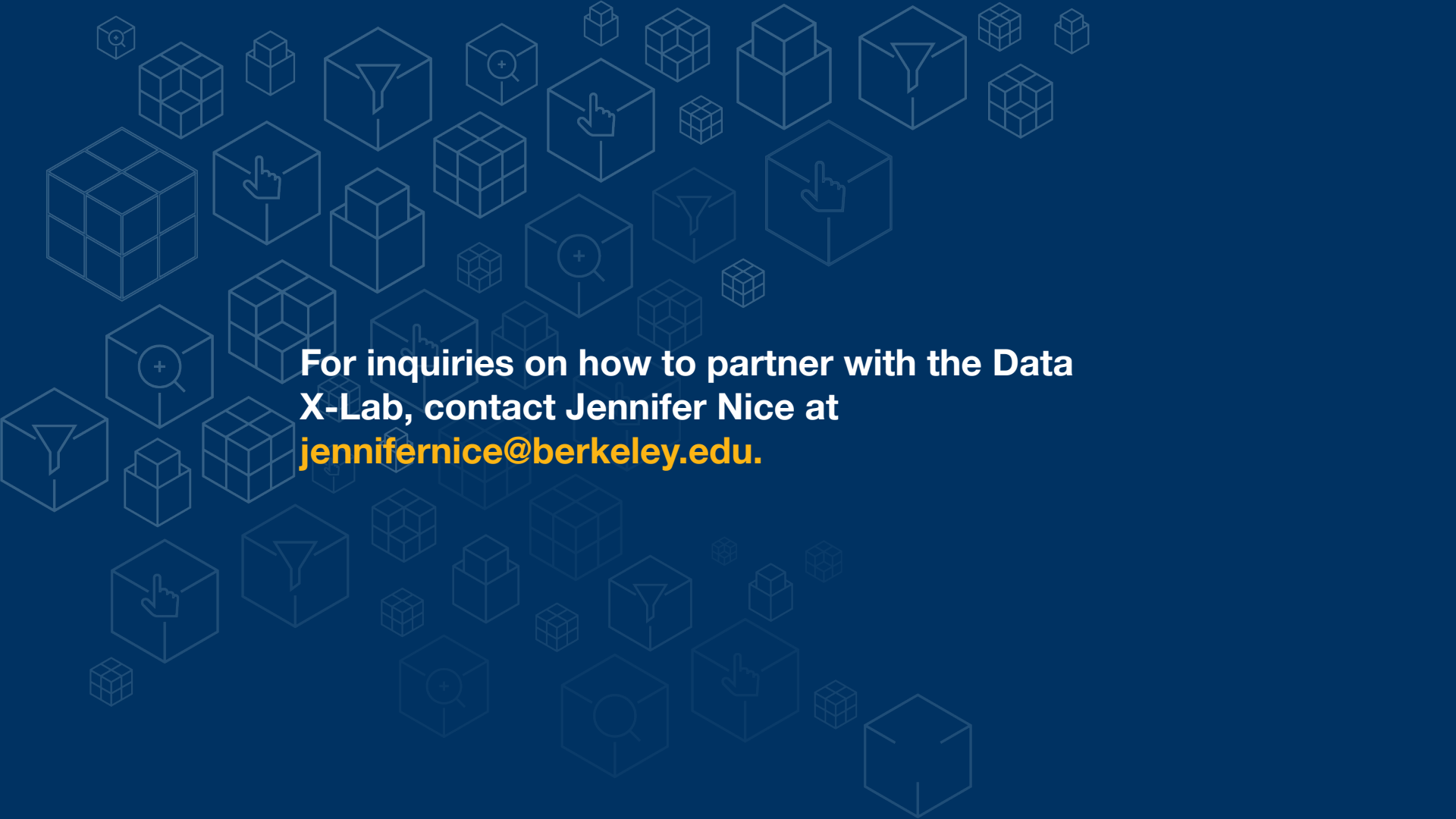
— **Victor Fang, Ph.D., CEO of AnChain.ai**

"Super useful! I would definitely recommend it for industrial partners to try out their projects through Data X"

— **Sohini Roychowdhury**

"To have real data from GE is valuable and one of the things I enjoyed the most from this course. We learned so much on the technical side from our GE mentor. He helped us to evaluate our work and consider what we might do next. There were also many tips from his industry experience that he shared in our meetings."

— **Data-X Student**



For inquiries on how to partner with the Data
X-Lab, contact Jennifer Nice at
jennifernice@berkeley.edu.