Getting Started with Data-X Projects
Data X: A Course on Data, Signals, and Systems

Ikhlaj Sidhu
Chief Scientist & Founding Director,
Sutardja Center for Entrepreneurship & Technology
IEOR Emerging Area Professor Award, UC Berkeley
Course Overview

Lectures: Quant Models and CS Code Examples

- Brainstorm Challenge and Validate (4)
- Propose Low Tech Solution (1)
- Execute * Iterate BMoE Reflections Agile Sprint (8)
- Demo or Die (1)

Open-ended, real-world project: Typically 5 students, with available advisor network
Project Types

Business or Consumer Use Case
(or improve part of a data pipeline or work towards a research result)

Social Impact

Its Just Cool

Project Categories:
• Completely by student team
• Industry proposed projects
• Data-X library
Implementation Behaviors and Process

1. Form, Storm, Norm
2. Minimum Viable
3. Key skeleton components
4. Hypothesis □ Test □ Record
5. Agile Model for Feature Increments (for a changing objective)
6. Agile Analytics
To get started - you will need a Concept and then a Story

CONCEPT → NABC → STORY → EVERYTHING ELSE
This is called a high concept pitch. It works for company also.

- Trick: no one else is doing it already
- Gets a conversation started.
For Data-X

Reinvent or Adapt Something, but Use a Data or AI type of System
More Ways to Get Your Concept:

AXB Story Generation

Ideal Customer Experience

Solving A Problem You Have Seen

Something that could be automated

Predicting something important
Assignment: Scope the Concept

NABC Story Outline

1. Need
2. Approach
3. Benefit
4. Competition

- Pitch
- Navigator

- AxB
- Ideal Experience

- Something that could be automated, done better, or predicted

Match with Team
Your Target

Explain your logic: why is this a good space
Project Name:
Add team members and contact:

NABC format story:

Need:
Approach
Benefit:
Competitions:

Logic:
Why is this a good market space?
<table>
<thead>
<tr>
<th>How Will Your Project Win?</th>
<th>What is Working/Known?</th>
<th>What Not Yet Working/Not Known?</th>
</tr>
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<tbody>
<tr>
<td>• Your answer,</td>
<td>• Your answer</td>
<td>• Your answer</td>
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| e.g. ours is easiest to use or lowest cost to do X | e.g. our User interface works | e.g. - we don’t have the right data
|                            |                        | - accuracy is too low           |

• General reflection
Reminder: To get started, you need a project concept. Start by coming up with as many project ideas as you can.

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