

HUDK 5053: FEATURE ENGINEERING STUDIO

9/8/16 9:01 AM

Today

- Course logic & structure
- What a lesson will look like
- Assessment
- What is a feature?



Syllabus

<https://github.com/feature-engineering-studio/syllabus>

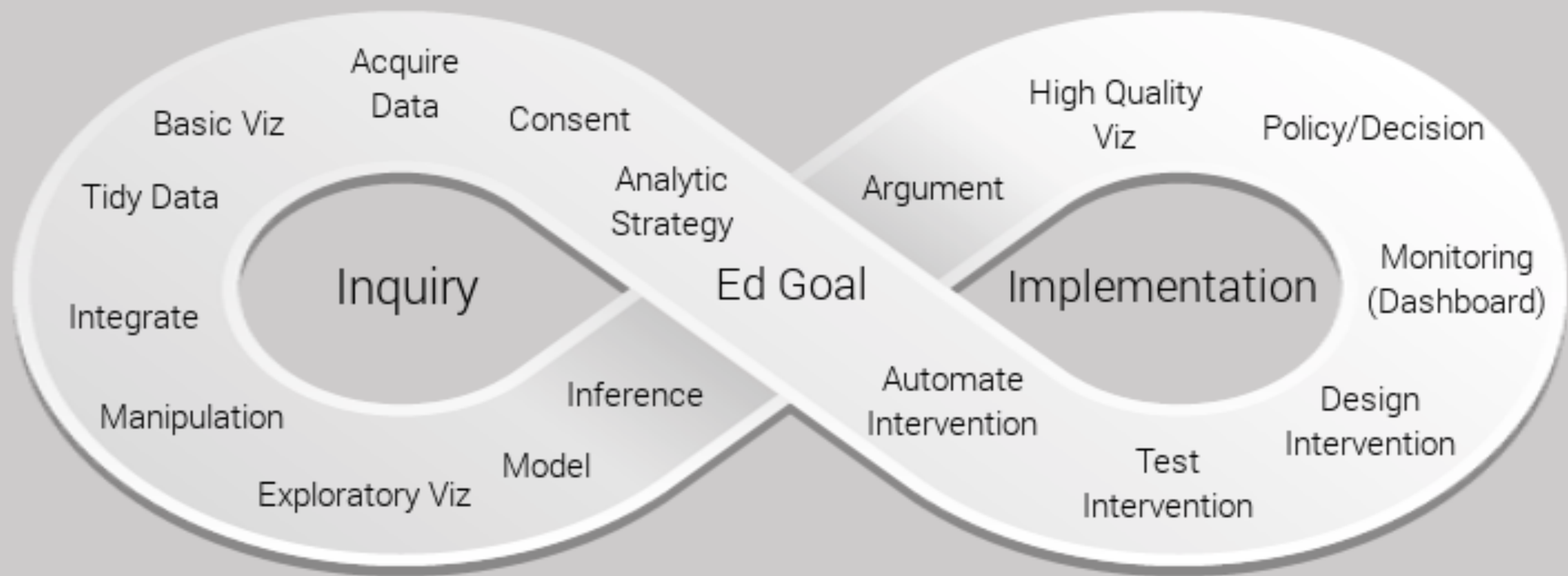
Course Logic

- Chance to develop a project
- Feed into the **capstone project**
- To demonstrate to people outside TC that you can do stuff

Course Structure

- Tuesdays/Thursdays (early 🥲)
- Tuesdays - Introduce some idea/
software
- Thursdays - Report back, problem solve

Ed Data Science Cycle



Assessment

- Workflow Milestones: 60%
- Progress Statements: 30%
- Participation: 10%

Assessment

Workflow Milestones:

1. Get set up: Github, RStudio(?), Zotero
2. Problem Design Statement
3. Data
4. Exploratory visualization
5. Method description
6. Progress statement
7. Logic model
8. Presentation
9. Deliverable

Assessment

Final Milestone:

- Submit whatever you develop
- Documentation (code, logic)
- Zotero library + notes
- Progress summary

Assessment

Progress Statements:

1. Each Thursday you report back: what your work is, what the obstacles are to you moving forward (Agile)
2. Keep a log of these work/obstacles
3. Submit as a progress statement

Tools

You will need:

- Access to a computer
- Twitter account
- The equivalent of:
 - ★ Github
 - ★ RStudio
 - ★ Zotero

Twitter (#TCLA16)



Three main uses for Twitter:

- Crowd source answers to your questions
- Comment on readings
- Backchannel in class (#IDKWGO)
- Create community amongst program
- Is the “coin of the realm”

Final Presentation

- Last week of class is Dec 20/22
- Presentations?

Questions?

What is a feature?

A feature is the specification of an attribute and its value (Kohavi & Provost, 1998)

A feature is an individual measurable property of a phenomenon being observed (Bishop, 2006)

Is a feature a covariate?

Is a covariate a feature?

What features might be related
to grades?

Assessment

Purpose of grades

- Not performance based
- Entirely a tool to overcome **immunity to change**



Assessment

Purpose of grades

- You will be assessed based on:
- Timeliness (5pm)
- Comprehensiveness
- Organization