

9/2/2025

Preparation

- **What is data science and what is the needed skills?**
 - The field that discover the insight of data by using math, stats, programming.
 - Support for decision making and strategic planing

9/4/2025

What is data science?

Understand data to do real science

How to go from data to insight?

9/5/2025 – Lab

There will have a quiz in next week – topic is the 1st section

1. What is data & where to get it?

What is data?

- The result of recording sth from a specific setting
 - **research gap**:
 - Example: Why ppl tend to not have kids?
 - ***question**: a hypothesis
 - **Feature**: what infor we need to collect?
 1. gender?
 2. number of children...

Key things to keep track of

- Observation: how we link data points that belong together?
- feature: piece of infor of observation
 - only organizes data to make it easier to work on

Meta data: data that describe data point of data set