Problem: Build a recommendation system for learning Data Science

Timeline: now – middle of April.

First offline: 7-10 PM, Wednesday, Jan 2

Description: The system works as follows:

* The learner input their CV and their job expectation
* The system will give them advice on how to achieve it: skillset to learn, courses to take, etc.

Tentative Plan:

* Collect data from various sources (2-3 weeks)
  + Job openings: job title, requirement, offers
  + Courses offered: online, offline, universities, etc
  + Two methods:
    - Crawl data from social networks and commercial pages
    - Talk to companies and other institutions.
* Preprocess data and make the database (2 weeks)
  + SQL
  + MongoDB
* Work on the algorithms for recommendation (3 weeks)
  + Simple:
    - given a skills, find related course
    - given a CV, find missing skills
  + Advanced:
    - More sophisticated advice
* Build the actual system for the learners to use (3 weeks):
  + Template to input CV
  + Job perspective
  + Output the recommendation

Working:

* Online: Slack (communication), Airtable (manage work), Google Drive & Gitlab (manage data & codes)
* Offline: Meeting once/week, about 3 hours
* Emphasize on teamwork