MLAI SynBio

Notebook: ideas
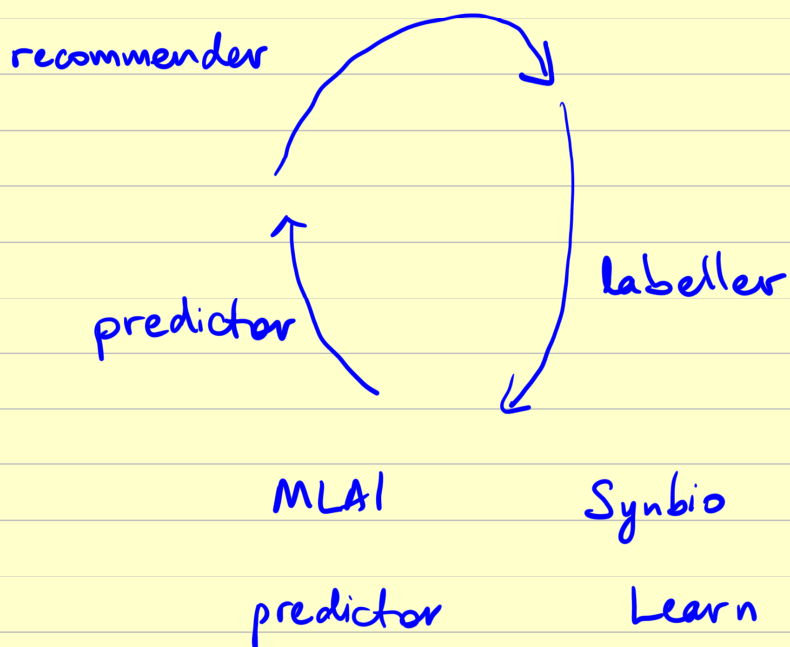**Created:** 11/05/2020 12:55 PM **Updated:** 11/05/2020 1:10 PM
Author: Cheng Soon Ong

Synbio

Design — Build — Test — Learn (cycle)

MLAI   github.com/chengsoonong/acton

recommender — labeller — predictor (cycle)

MLAI   Synbio

predictor   Learn

Design

recommender   Design
                   Build
labeller   Test

predictor ≡ learn
    - standard MLAI method
    - data representation research
        - DNA, RNA sequence
        - time series, spectrum
        - protein interaction graph

recommender
    - choose where to measure
        - which RBS sequence
    - need to define goal of
      experiment
    - practical constraints of Build
      phase need to be taken into
      account
    - understand causal effects
labeller
    ≈ Build + Test
    - how to combine different
      experimental results?
    - data and interface management
    - feed into learning