Autonomous Learning

Stage 1: Open-Book Learning

Unlabeled Corpora

Books

Web Corpus
www

Wikipedia

Medical Literature

D->QA

π^{OBL}

Self Questioning and Answering

Reference document (D): Earth orbiting the Sun causes seasons to change

Question (Q): What causes the change in seasons on Earth?

Answer (A): The change in seasons on Earth is caused by its orbit around the Sun.

Supervised Fine-tuning
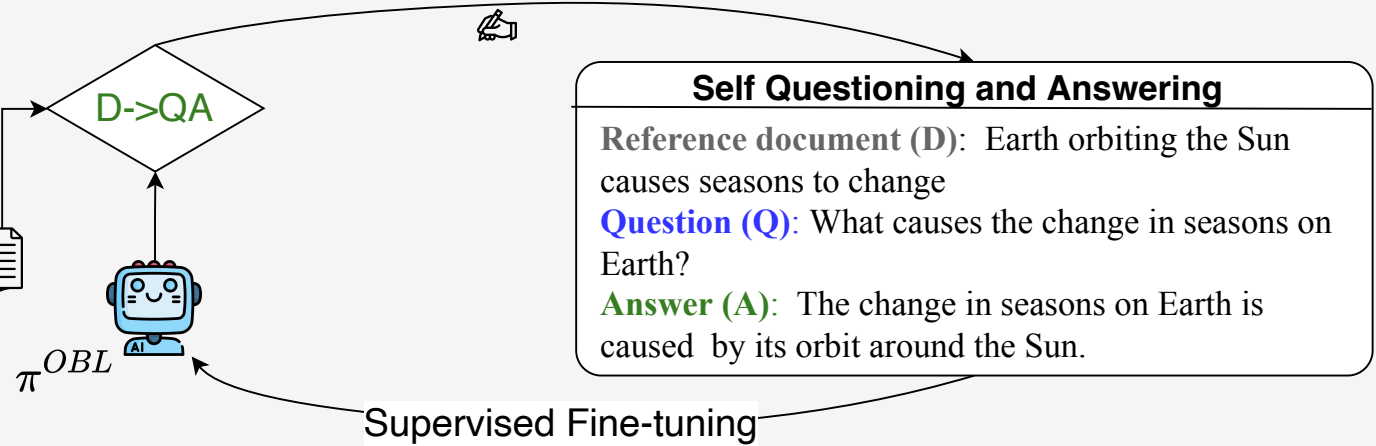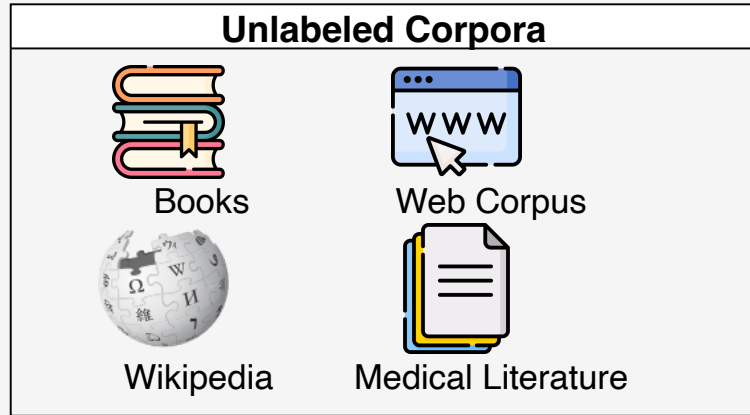
Stage 2: Closed-Book Learning

Unlabeled Corpora

Books

Web Corpus
www

Wikipedia

Medical Literature

D->QA

Question (Q)

Q->A

π^{OBL}

Open-Book Answer

a_o

Closed-Book Answer

a_c

$loss = \sigma(r_{a_o} - r_{a_c})$

π^{CBL}

$a_o \ is \ better \ than \ a_c$