

(a) Well-defined Mathematics Problem

Formulated Problem

$$\begin{aligned}x + 2y &= 10 \\ x + y &= 6\end{aligned}$$



Agent

$$x = 2 \quad y = 4$$

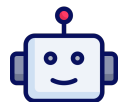
Solution

(b) Real-world Open-ended Mathematical Modeling Problem

Decision-making Scenario



Forest Fire Management

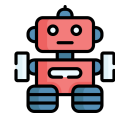


Agent

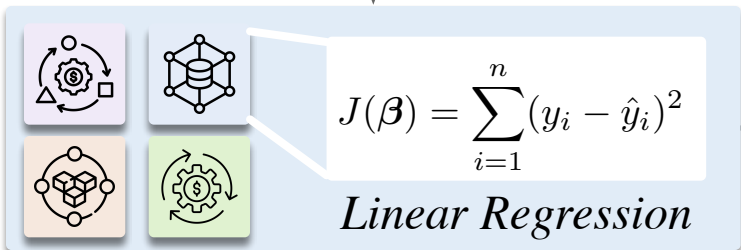
Problem Formulation

Task:

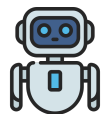
- A: allocate firefighting resources
- B: plan evacuation routes
- C: dispatch helicopters
- D: schedule supply deliveries



Agent



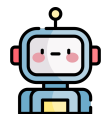
Modeling



Agent

Computational Solving

Solving



Agent



Report