		a sequence of decisions under uncertainty to maximize long-term utility.
1. Ke	y Con	cepts
0	•	Sequential Decisions: Each choice affects future options and outcomes.
0	•	Utility: Measures desirability of outcomes; aim is to maximize expected utility.
2. De	cision	Networks (Influence Diagrams)
0	•	Extend Bayesian networks by adding:
0	•	Chance nodes (uncertain variables)
0	•	Decision nodes (agent choices)
0	•	Utility nodes (agent preferences)
3. Op	timal I	Policies
0	•	A policy is a mapping from states to actions.
0	•	Use backward induction or dynamic programming to compute optimal policies.
4. Va	lue of	Information (VoI)
0	•	Measures how much gaining new information improves decisions.
0	•	Vol ≥ 0 always; helps decide whether to observe before acting.
5. Ap	plicati	ons
0	•	Medical diagnosis
0	•	Robotics
0	•	Game Al