Apt Decision Agent

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In complex domain spaces, people give minimal/incomplete/incorrect descriptions of what they want. Why?

- They don’t know what they really want
- They forgot some crucial piece of information or level of detail
- They lack information that an agent could give them

Computer programs attempt to solve this problem, but they often fail. Why?

- They require decisions before the user has the information to make them
- They often don’t incorporate knowledge about the domain in a way that is accessible to the user.
- They don’t learn anything about the users’ choices or preferences

The Apt Decision Agent:

- Helps the user make decisions in a complex domain space (real estate)
- Helps the user learn about the domain and recall details about choices
- Learns from the user’s behavior by observing interactions with the system
- Provides the user with a familiar style of interface which has ’extra’ capabilities

How it works:

- The user enters minimal information to start, enough to generate a list of potential apartments.
- While the agent watches, the user chooses desirable or undesirable attribute values from the apartments shown.
- The agent, using its knowledge of the real estate domain, learns the user’s preferences, and offers suggestions based on those preferences. Preferences are stored in a profile.
- Through successive iterations, the agent adjusts the user’s profile with increasing certainty. The profile can be saved and ‘handed off’ to negotiation or shopping agents

Screenshot