

AutoGen

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agentchat.contrib.capabilities.teachability

Teachability Objects

class Teachability(AgentCapability

Teachability uses a vector database to give an agent the ability to remember user teachings, where the user is any caller (human or not) sending messages to the teachable agent. Teachability is designed to be composable with other agent capabilities. To make any conversable agent teachable, instantiate both the agent and the Teachability class, then pass the agent to teachability.add_to_agent(agent). Note that teachable agents in a group chat must be given unique path to db dir values.

__init__

Arguments:

- verbosity Optional, int # 0 (default) for basic info, 1 to add memory operations, 2 for analyzer messages, 3 for memo lists.
- reset db Optional, bool True to clear the DB before starting. Default False.
- path to db dir Optional, str path to the directory where this particular agent's DB is stored. Default "./tmp/teachable_agent_db"
- recall_threshold *Optional, float* The maximum distance for retrieved memos, where 0.0 is exact match. Default 1.5. Larger values allow more (but less relevant) memos to be recalled.
- max num retrievals Optional, int The maximum number of memos to retrieve from the DB. Default 10.
- llm_config dict or False llm inference configuration passed to TextAnalyzerAgent. If None, TextAnalyzerAgent uses llm_config from the teachable agent.

add_to_agent

def add_to_agent(agent: ConversableAgent)

Adds teachability to the given agent.

prepopulate_db

def prepopulate db()

Adds a few arbitrary memos to the DB.

process_last_message

def process last message(text)

Appends any relevant memos to the message text, and stores any apparent teachings in new memos. Uses TextAnalyzerAgent to make decisions about memo storage and retrieval.

MemoStore Objects

class MemoStore(

Provides memory storage and retrieval for a teachable agent, using a vector database. Each DB entry (called a memo) is a pair of strings: an input text and an output text. The input text might be a question, or a task to perform. The output text might be an answer to the question, or advice on how to perform the task. Vector embeddings are currently supplied by Chroma's default Sentence Transformers.

init

def init (verbosity, reset, path to db dir)

Arguments:

- verbosity (Optional, int): 1 to print memory operations, 0 to omit them. 3+ to print memo lists.
- path_to_db_dir (Optional, str): path to the directory where the DB is stored.

list_memos

def list memos()

Prints the contents of MemoStore.

reset db

def reset db(

Forces immediate deletion of the DB's contents, in memory and on disk.

add_input_output_pair

def add input output pair(input text, output text)

Adds an input-output pair to the vector DB.

get_nearest_memo

def get nearest memo(query text)

Retrieves the nearest memo to the given query text.

get related memos

def get_related_memos(query_text, n_results, threshold)

Retrieves memos that are related to the given query text within the specified distance threshold.

prepopulate

def prepopulate()

Adds a few arbitrary examples to the vector DB, just to make retrieval less trivial.

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