Node Guide : Entity Extraction

Overview

The **Entity Extraction** node is designed to extract structured information (entities) from unstructured text using an LLM configuration. It can reference prior memory (agent/global) for better contextual extraction and allows testing and previewing of the results before runtime.

What This Node Does

- Extracts entities from a block of content
- Uses LLM-based intelligence to identify key values
- Supports referencing past memory for enhanced context
- Enables live preview and testing of extracted entities

Inputs

This node takes the following inputs dynamically or from variables:

- Content from which entities need to be extracted
- LLM configuration (mandatory – selected from global configurations)
- Memory Limit – how many past interactions to consider
- Memory Scope – choose between Agent Memory or Global Memory

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Outputs

- **Entities Extracted**: Store the extracted entities in a variable
- **Entities Count**: Store the total number of entities extracted

- **All Entities Extracted**: A Yes/No flag indicating if all targeted entities were found

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Configuration

To use the **Entity Extraction** node effectively, configure the following:

LLM Configuration

- Select from LLM configurations defined in the **Global Configurations Page**
- This setting is **mandatory** for the node to function

Memory Settings

- **Memory Limit**: The number of past conversation turns the model should consider
- **Memory Scope**: Choose either `Agent Memory` or `Global Memory` to give the LLM context

Content Selection

- Choose the **content** from a dropdown list of variables containing the text you want to extract entities from

Configure Extraction (Optional, but powerful)

Click on **Configure Extraction** to:

- Paste or enter a sample content block
- Define which entities you want the LLM to extract
- Add any **additional instructions** or extraction constraints
- Click **Test Extraction** to run a mock extraction and **preview** the results live

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Example Flow

Use Case: You want to extract a customer's name, issue type, and product mentioned from a support message stored in a variable.

Flow Steps:

1. **Entity Extraction Node**
    - Input: `{{support_message}}`
    - Extract: `name`, `issue_type`, `product`
    - LLM config: `Default-OpenAI-Config`
    - Memory: `Last 5 turns` from `Agent Memory`
    - Outputs: `extracted_data`, `entity_count`, `extraction_status`
2. **Condition Node**
    - If `extraction_status == "yes"`, continue
3. **Update Row Node**
    - Store extracted values into the support database

This allows the flow to intelligently parse customer text and process it automatically.

Description

The **Entity Extraction** node leverages the power of Large Language Models to automatically extract relevant fields from your input text. Whether you're handling customer requests, support queries, or any unstructured data — this node helps you pull key entities intelligently and flexibly.
With **live testing**, **memory support**, and LLM-powered reasoning, it provides an end-to-end experience for high-quality data extraction.