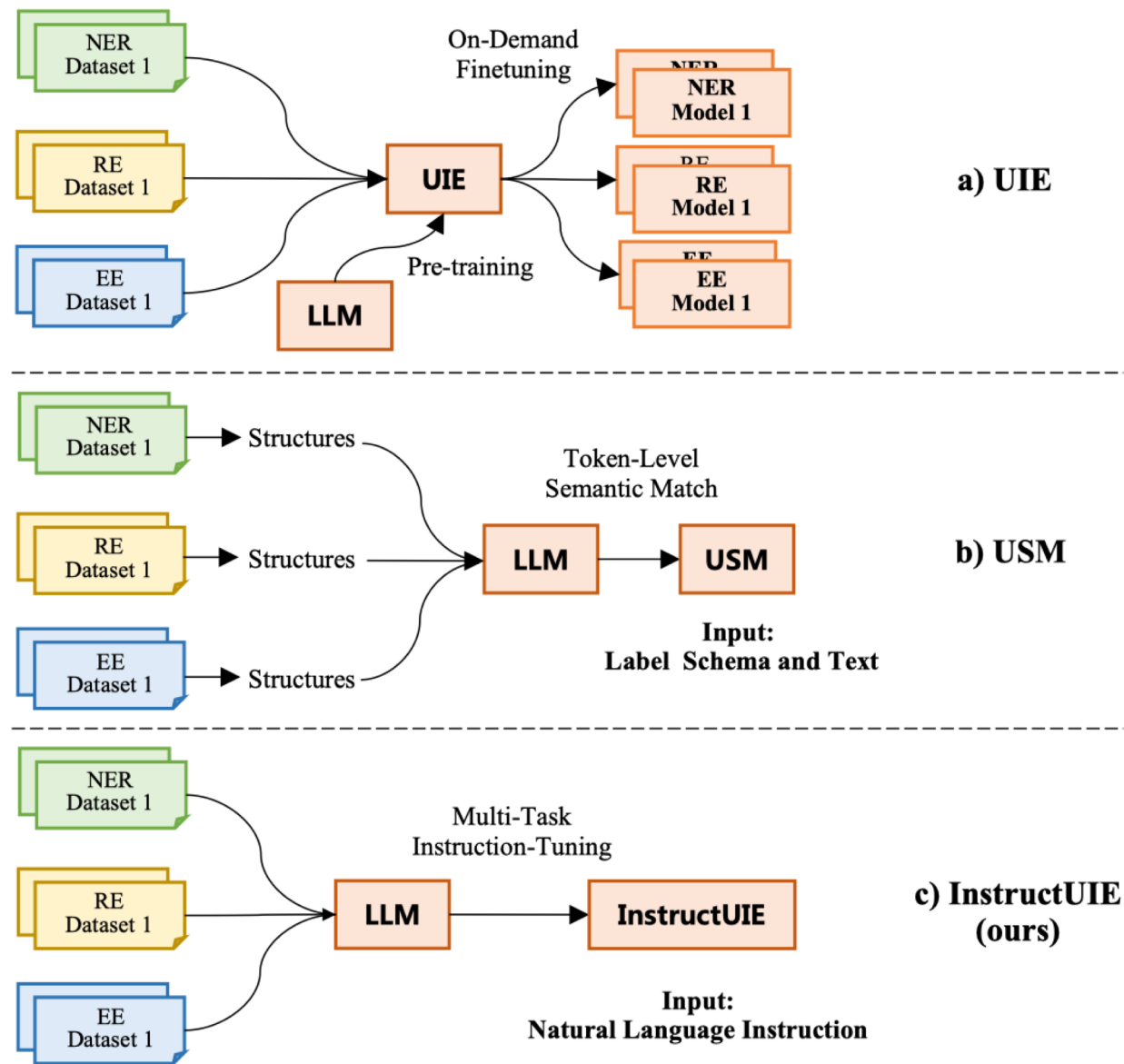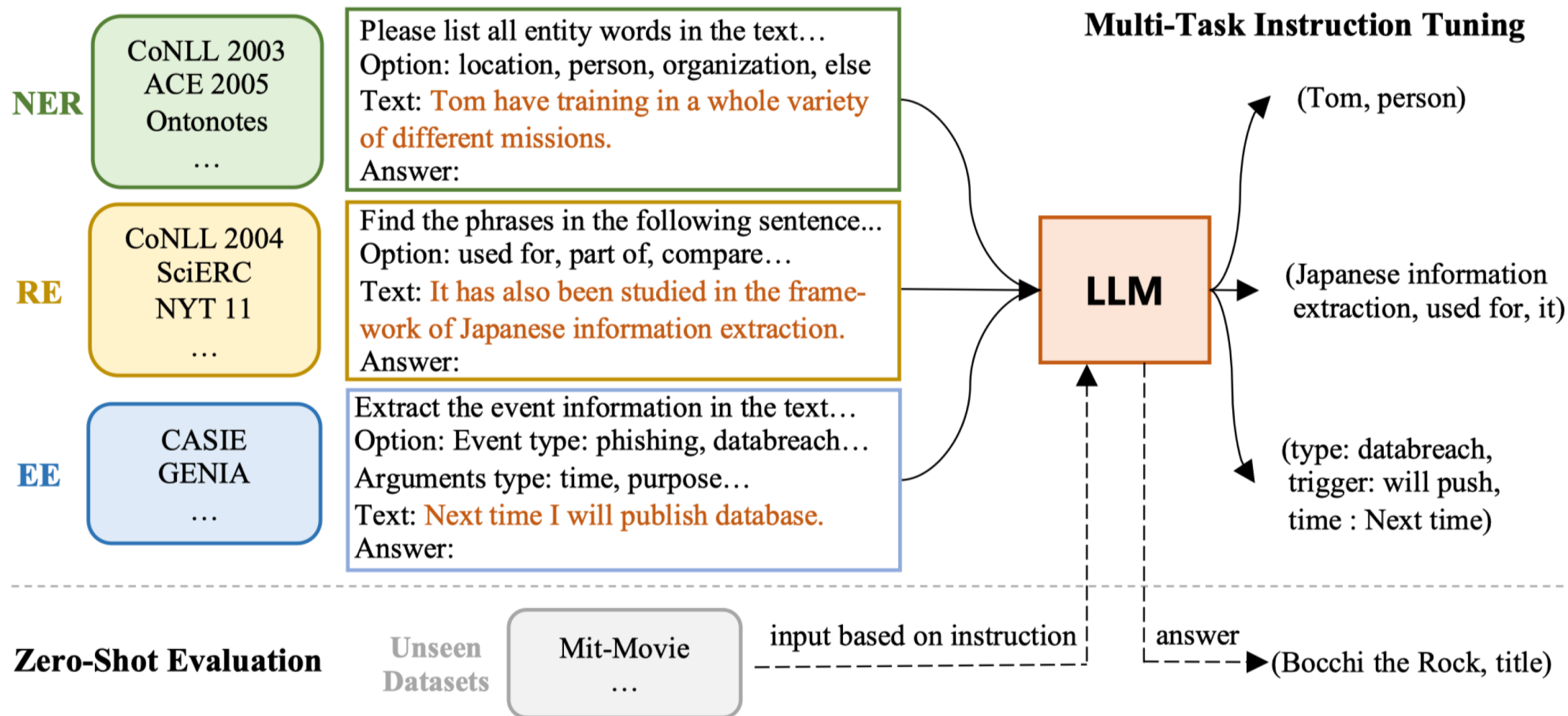# InstructUIE

InstructUIE: Multi-task Instruction Tuning for Unified Information Extraction

InstructUIE

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Task	Prompts
NER	Please list all entity words in the text that fit the category. Output format is "type1: word1; type2: word2".
	Please find all the entity words associated with the category in the given text. Output format is "type1: word1; type2: word2".
	Please tell me all the entity words in the text that belong to a given category. Output format is "type1: word1; type2: word2".
RE	Given a phrase that describes the relationship between two words, extract the words and the lexical relationship between them. The output format should be "relation1: word1, word2; relation2: word3, word4".
	Find the phrases in the following sentences that have a given relationship. The output format is "relation1: word1, word2; relation2: word3, word4".
	Given a sentence, please extract the subject and object containing a certain relation in the sentence according to the following relation types, in the format of "relation1: word1, word2; relation2: word3, word4".
EE	Locate the role in the text that participated in the event based on the event type and return it in the event list.
	Extract the event information in the text and return them in the event list.

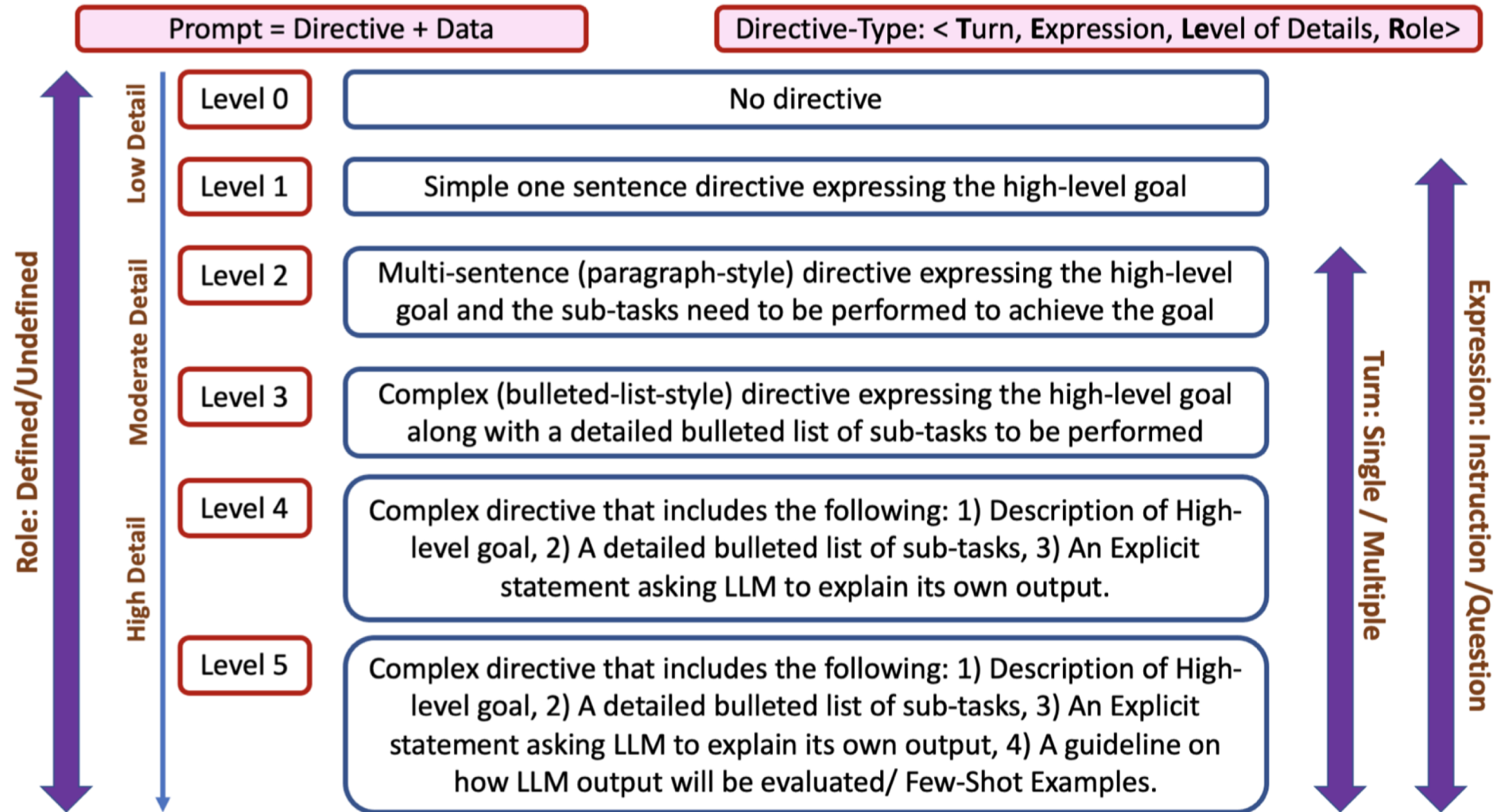InstructUIE: Multi-task Instruction Tuning for Unified Information Extraction

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- Auxiliary Tasks
  - **NER:** span extraction、entity typing
  - **Relation Extraction:** entity pair extraction、relation classification
  - **Event Extraction:** trigger extraction、argument extraction

ES	Please list all entity words in the text that fit the category. Output format is word1, word2.
ET	Given options, please tell me the categories of all the listed entity words.Output format is "type1: word1; type2: word2".
EP	Please list all entity pairs containing a certain relationship in the given options.Output format is "word1, word2; word3, word4".
EPR	Given options, please tell me the relationships of all the listed entity pairs.Output format is "relation1: word1, word2; relation2: word3, word4".
EEA	Given event type and trigger, please tell me the arguments of all the listed option. Output format is "name: role".
EET	Please tell me event type and its trigger word from given type options. Output format is "event type: trigger".

InstructUIE: Multi-task Instruction Tuning for Unified Information Extraction

LLM Prompts for Complex Tasks

TELeR: A General Taxonomy of LLM Prompts for Benchmarking Complex Tasks

Did You Read the Instructions?

- 只有删除任务输出（标签信息）才会显著降低性能
- 大约 60% 的 token 可以被移除而不降低性能
- 自然语言未必是最好的指令形式，(输入, 操作, 输出) 三元组更高效
- 只提供 **标签空间** 与 **基础任务 metadata** (category, domain, reasoning type) 就足够了
- 建议：
  - 只提供任务的关键信息
  - 添加一个 meta-tuning 环节，使模型适应定义的风格