Congratulations! You passed!

Grade received 100% $\,$ To pass 80% or higher

Go to next item

1.	What is the primary concern regarding bias in chit-chat systems?	1/1 point
	Biased training data can reflect historical inequalities and discriminatory patterns.	
	O Bias in chit-chat systems can be eliminated completely.	
	O Biases in the model can lead to inaccurate responses from the system.	
	O Bias mitigation is necessary to enhance system performance.	
	♥ Correct Correct. The primary concern regarding bias in chit-chat systems is that biased training data can reflect historical inequalities, stereotypes, or discriminatory patterns, which can lead to biased responses from the system.	
2.	Which techniques help in organizing information and facilitate efficient retrieval and reasoning for accurate question answering?	1/1 point
	Machine learning algorithms	
	O Sentiment analysis	
	Natural language processing techniques	
	Knowledge graphs	
	Correct Correct. Knowledge graphs and ontologies are structured representations of a knowledge base that help organize information, making it easier to retrieve and reason over the data. These techniques play a crucial role in accurate question answering.	
3.	What is the purpose of indexing in a knowledge base?	1/1 point
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	To enable fast and accurate search capabilities. To store data in a structured format.	
	To perform sentiment analysis on user queries.	
	To encrypt sensitive information.	
	Correct Correct. Indexing in a knowledge base allows for fast and accurate search capabilities. Creating an index or a searchable database facilitates efficient retrieval of information based on user queries.	
4	Which approach can be employed to train a knowledge base for a Q&A system?	4/4
٠.		1/1 point
	Supervised learning	
	Reinforcement learning	
	O All of the above	
	O Unsupervised learning	
	Correct Correct. Supervised learning can be employed to train a knowledge base for a Q&A system. In this approach, preprocessed data is labeled with correct answers, and machine learning algorithms learn from the labeled data to extract patterns and relationships.	
5.	What is the purpose of Step 4 in creating a knowledge base (KB)?	1 / 1 point
	O It configures the settings of the KB and sets access permissions.	
	It extracts question and answer pairs from various sources to populate the KB.	
	O It validates the KB and ensures its accuracy and completeness.	
	O It trains the machine learning model to improve KB's performance.	
	 Correct Correct. Step 4 is about extracting question-and-answer pairs from various sources, such as online FAQs, 	

product manuals, or files in supported formats (.tsv, .pdf, .doc, .docx, .xlsx). These question-and-answer

pairs are then used to populate the KB, making it a valuable resource for providing answers to user queries.

6.	When configuring the Chit Chat source in the Manage Sources section of a conversational AI system, which of the following options are available?
	Analytical, creative, reserved, sympathetic, and confident.
	O Formal, shy, intelligent, humorous, and casual.
	Professional, friendly, witty, caring, and enthusiastic.
	O Serious, sarcastic, humorous, empathetic, and casual.
	© Correct Correct. When configuring the Chit Chat source, the available options are professional, friendly, witty, caring, and enthusiastic. These options define the desired tone and style of the chit-chat responses in the conversational AI system.