AI Language Processing Interview Questions And Answers Guide.

AI Language Processing Job Interview Preparation Guide.

Question # 1

What is Natural Language Processing?

Answer:-

Natural Language Processing (NLP) refers to AI method of communicating with an intelligent systems using a natural language such as English.
Processing of Natural Language is required when you want an intelligent system like robot to perform as per your instructions, when you want to hear decision from a
dialogue based clinical expert system, etc.

Read More Answers.

Question # 2

List the components of NLP?

Answer:-

There are two components of NLP as given:
* Natural Language Understanding (NLU)
* Natural Language Generation (NLG)

Read More Answers.

Question # 3

What is Natural Language Understanding (NLU)?

Answer:-

Understanding involves the following tasks -
Mapping the given input in natural language into useful representations.
Analyzing different aspects of the language.

Read More Answers.

Question # 4

What is Natural Language Generation (NLG)?

Answer:-

It is the process of producing meaningful phrases and sentences in the form of natural language from some internal representation.
It involves:
Text planning:
It includes retrieving the relevant content from knowledge base.
Sentence planning:
It includes choosing required words, forming meaningful phrases, setting tone of the sentence.
Text Realization:
It is mapping sentence plan into sentence structure.

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Question # 5

Explain Difficulties in NLU?

Answer:-

NL has an extremely rich form and structure.
It is very ambiguous. There can be different levels of ambiguity:
* Lexical ambiguity
* Syntax Level ambiguity
* Referential ambiguity

Read More Answers.

Question # 6

What is Lexical ambiguity?

Answer:-

It is at very primitive level such as word-level.
For example, treating the word "board" as noun or verb?

Read More Answers.

Question # 7

What is Syntax Level ambiguity?

Answer:-

A sentence can be parsed in different ways.
For example, "He lifted the beetle with red cap." - Did he use cap to lift the beetle or he lifted a beetle that had red cap?

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Question # 8

What is Referential ambiguity?

Answer:-

Referring to something using pronouns. For example, Rima went to Gauri. She said, "I am tired." - Exactly who is tired?

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Question # 9

What are the terminologies of NLP?

Answer:-

* Phonology
* Morphology
* Morpheme
* Syntax
* Semantics
* Pragmatics
* Discourse
* World Knowledge

Read More Answers.

Question # 10

What is Phonology NLP Terminology?

Answer:-

It is study of organizing sound systematically.

Read More Answers.

Question # 11

What is Morphology NLP Terminology?

Answer:-

It is a study of construction of words from primitive meaningful units.

Read More Answers.

Question # 12

What is Morpheme NLP Terminology?

Answer:-

It is primitive unit of meaning in a language.

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Question # 13

What is Syntax NLP Terminology?

Answer:-

It refers to arranging words to make a sentence. It also involves determining the structural role of words in the sentence and in phrases.

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Question # 14

What is Semantics NLP Terminology?

Answer:-

It is concerned with the meaning of words and how to combine words into meaningful phrases and sentences.

Read More Answers.

Question # 15

What is Pragmatics NLP Terminology?

Answer:-

It deals with using and understanding sentences in different situations and how the interpretation of the sentence is affected.

Read More Answers.

Question # 16

What is Discourse NLP Terminology?

Answer:-

It deals with how the immediately preceding sentence can affect the interpretation of the next sentence.

Read More Answers.

Question # 17

What is World Knowledge NLP Terminology?

Answer:-

It includes the general knowledge about the world.

Read More Answers.

Question # 18

What is Semantic Analysis?

Answer:-

It draws the exact meaning or the dictionary meaning from the text. The text is checked for meaningfulness. It is done by mapping syntactic structures and objects in the task domain. The semantic analyzer disregards sentence such as "hot ice-cream".

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Question # 19

What is Syntactic Analysis?

Answer:-

It involves analysis of words in the sentence for grammar and arranging words in a manner that shows the relationship among the words. The sentence such as "The school goes to boy" is rejected by English syntactic analyzer.

Read More Answers.

Question # 20

What is Discourse Integration?

Answer:-

The meaning of any sentence depends upon the meaning of the sentence just before it. In addition, it also brings about the meaning of immediately succeeding sentence.

Read More Answers.

Question # 21

What is Pragmatic Analysis?

Answer:-

During this, what was said is re-interpreted on what it actually meant. It involves deriving those aspects of language which require real world knowledge.

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Question # 22

What is Lexical Analysis?

Answer:-

It involves identifying and analyzing the structure of words. Lexicon of a language means the collection of words and phrases in a language. Lexical analysis is dividing the whole chunk of txt into paragraphs, sentences, and words.

Read More Answers.

Question # 23

Explain Game Playing AI?

Answer:-

This covers a number of game playing techniques, notably checkers and backgammon because so much good research has been done on these problems and because so many different techniques have been tried.

Read More Answers.

Question # 24

Explain AI Backgammon?

Answer:-

This section looks at Berliner's program, two backprop versions by Tesauro and a temporal difference method by Tesauro. This latter program is VERY good and has found strategies that now human backgammon players acknowledge are better than some of the old humanly devised strategies.

Question # 25

Explain AI Checkers?

Answer:-

The main programs here are Arthur Samuel's, the rote learning method which is a lot like a memory based method, generalization learning which is a lot like backprop and a signature table approach that also gives you a feed-forward type network. One of Samuel's programs did beat a checkers champion and the AI community has often make a fuss over that saying that this AI program played a "championship-level" game however that expert beat the program in the next 6 games. Note too, what Samuels says: "the program is quite capable of beating any amateur player and can give better players a good contest".

Question # 26

What is Artificial intelligence Language Processing?

Answer:-

Artificial intelligence language processing (AILP) is a field of computer science and linguistics concerned with the interactions between computers and human (natural) languages; it began as a branch of artificial intelligence. In theory, natural language processing is a very attractive method of human–computer interaction. Natural language understanding is sometimes referred to as an AI-complete problem because it seems to require extensive knowledge about the outside world and the ability to manipulate it.

Artificial intelligence (AI) Most Popular Interview Topics.

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