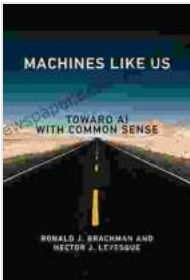


Machines Like Us: Toward AI With Common Sense



Machines like Us: Toward AI with Common Sense

by Ronald J. Brachman

★★★★★ 5 out of 5

Language : English
File size : 2560 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 317 pages



What is common sense?

Common sense is the ability to understand and reason about the world in a way that is consistent with our experiences. It allows us to make inferences about the world, even when we do not have all of the information. For example, we can infer that if we see a person walking into a store, they are probably going to buy something.

Common sense is essential for human intelligence. It allows us to interact with the world in a meaningful way and to make decisions that are based on our understanding of how the world works.

Why is common sense important for AI?

AI systems that lack common sense are often unable to understand and reason about the world in a way that is consistent with human expectations.

This can lead to errors and misunderstandings. For example, an AI system that does not understand common sense might not be able to understand why a person is crossing the street. This could lead to the AI system making a dangerous decision, such as running into the person.

Common sense is also important for AI systems to be able to interact with humans in a meaningful way. If an AI system does not understand common sense, it will not be able to understand human conversation or behavior. This will make it difficult for AI systems to be used in applications such as customer service or healthcare.

Challenges in developing AI systems with common sense

There are a number of challenges involved in developing AI systems with common sense. One challenge is that common sense is often difficult to define. There is no single, universally agreed-upon definition of common sense. This makes it difficult to develop AI systems that can consistently demonstrate common sense.

Another challenge is that common sense is often context-dependent. What is considered to be common sense in one situation may not be considered to be common sense in another situation. This makes it difficult to develop AI systems that can apply common sense in a wide range of situations.

Finally, common sense is often learned through experience. This means that AI systems may need to learn common sense through trial and error. This can be a time-consuming and expensive process.

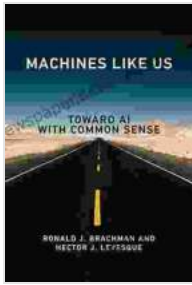
Recent advances in developing AI systems with common sense

Despite the challenges, there have been some recent advances in developing AI systems with common sense. One approach is to use natural language processing (NLP) to teach AI systems about common sense knowledge. NLP techniques can be used to extract common sense knowledge from text corpora. This knowledge can then be used to train AI systems to reason about the world in a way that is consistent with human expectations.

Another approach is to use deep learning to develop AI systems that can learn common sense through experience. Deep learning techniques can be used to train AI systems to recognize patterns in data. This knowledge can then be used to develop AI systems that can make inferences about the world and make decisions that are based on common sense.

Common sense is essential for human intelligence and for the development of truly intelligent AI systems. AI systems that lack common sense are often unable to understand and reason about the world in a way that is consistent with human expectations. This can lead to errors and misunderstandings.

There are a number of challenges involved in developing AI systems with common sense. However, there have been some recent advances in this area. NLP and deep learning techniques are being used to develop AI systems that can learn common sense through experience. These advances are bringing us closer to the development of AI systems that can truly understand and reason about the world in a way that is similar to humans.



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