

Message of the day (MOTD) - 2024

CSI 4106 Introduction to Artificial Intelligence

Marcel Turcotte

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2024-09-09

We are assembling **a lean, cracked team of the world's best engineers and researchers** dedicated to focusing on SSI (safe superintelligence) and nothing else.

[ssi.inc](#)

[Ilya Sutskever](#) is a renowned computer scientist and a leading figure in the field of artificial intelligence. He co-founded [OpenAI](#), where he serves as the Chief Scientist, and has been instrumental in the development of groundbreaking AI models. Sutskever completed his Ph.D. at the University of Toronto, where he worked under the supervision of [Geoffrey Hinton](#). His contributions to deep learning, particularly in neural networks and natural language processing, have significantly advanced the capabilities of AI technologies.

2024-09-11

SEPT. 16, 2024

THE 100 MOST INFLUENTIAL PEOPLE IN ARTIFICIAL INTELLIGENCE

TIME 100/A.I.



time.com

The 100 Most Influential People in AI 2024, TIME, September 5, 2024

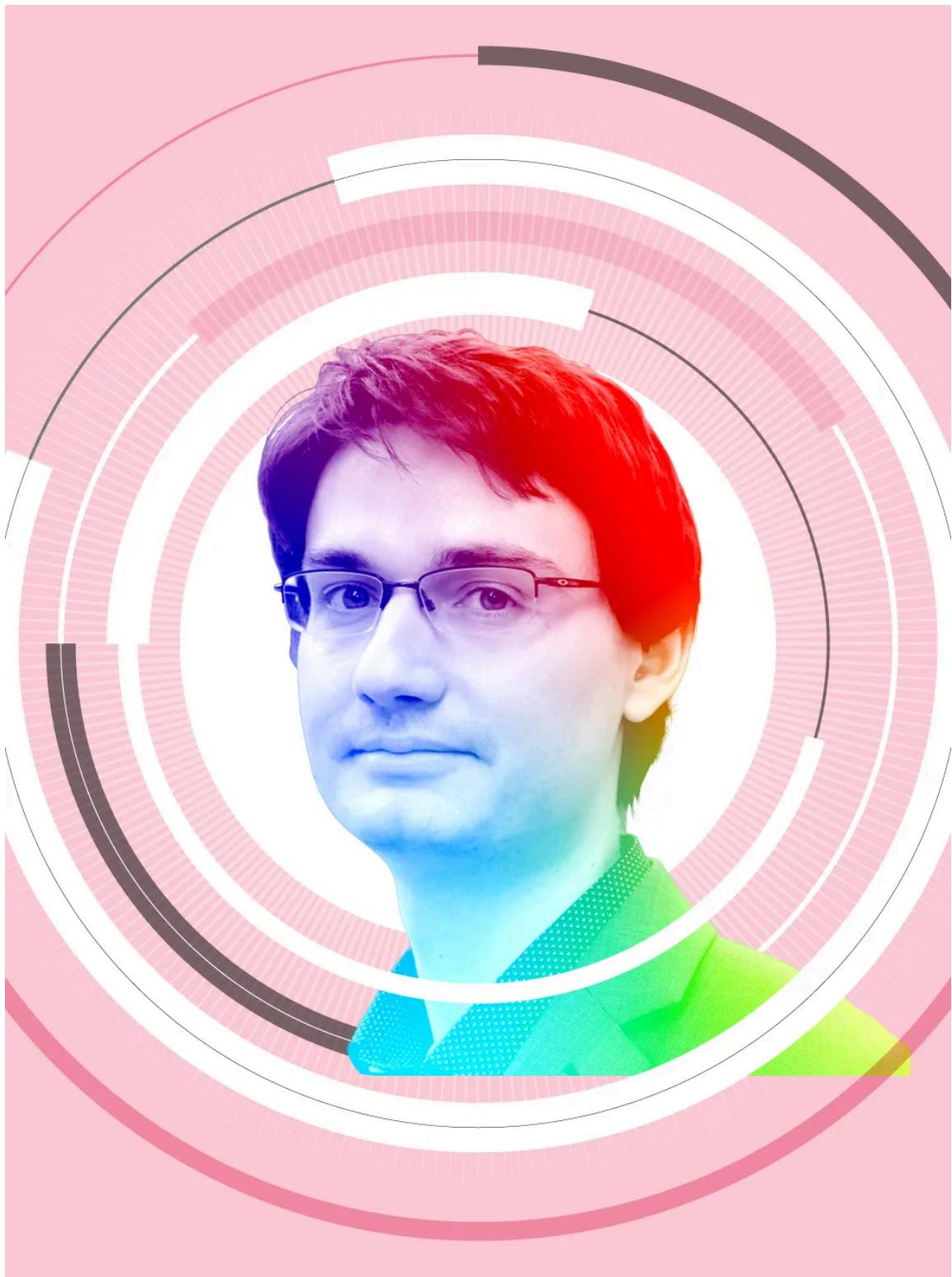
TIME has recently published its list of the 100 most influential individuals in AI for 2024.

2024-09-11 (continued)



Yoshua Bengio

Université de Montréal



Francois Chollet

Software engineer, Google



Sasha Luccioni

AI & Climate Lead, Hugging Face (Montréal)

Once again this year, Yoshua Bengio from Université de Montréal has been included in the list. Bengio, along with Geoffrey Hinton and Yann LeCun, received the ACM Turing Award in 2018 for their pioneering contributions to the field. The trio is often referred to

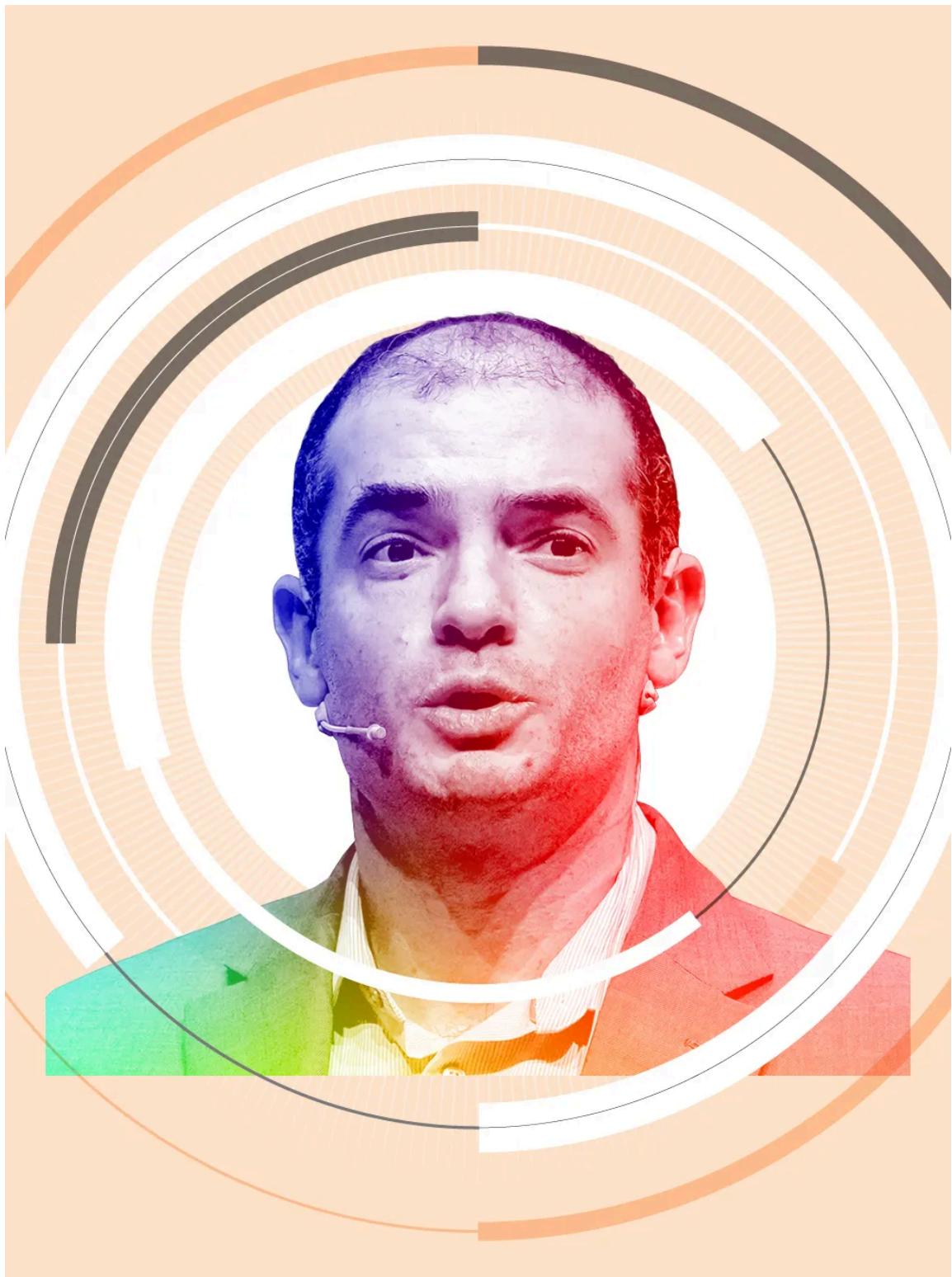
as the “Fathers of Deep Learning.” Geoffrey Hinton is a professor at the University of Toronto.

- [Fathers of the Deep Learning Revolution Receive ACM A.M. Turing Award](#)

I mentioned François Chollet in the first lecture. In addition to creating Keras, a widely-used deep learning framework, François is the co-initiator of the \$1 million ARC challenge, which aims to measure skill acquisition. More information about ARC can be found here: [ARC](#).

Finally, some of you are registered in this course to question the rationale behind building AI systems. You seek a deeper understanding of the technology to form an informed opinion. Some of you are concerned about the societal and ecological impacts of AI. Sasha Luccioni is the Climate and AI Lead at Hugging Face. She resides in Montréal with her family.

2024-09-11 (continued)



Ilya Sutskever

Co-founder, Safe Superintelligence



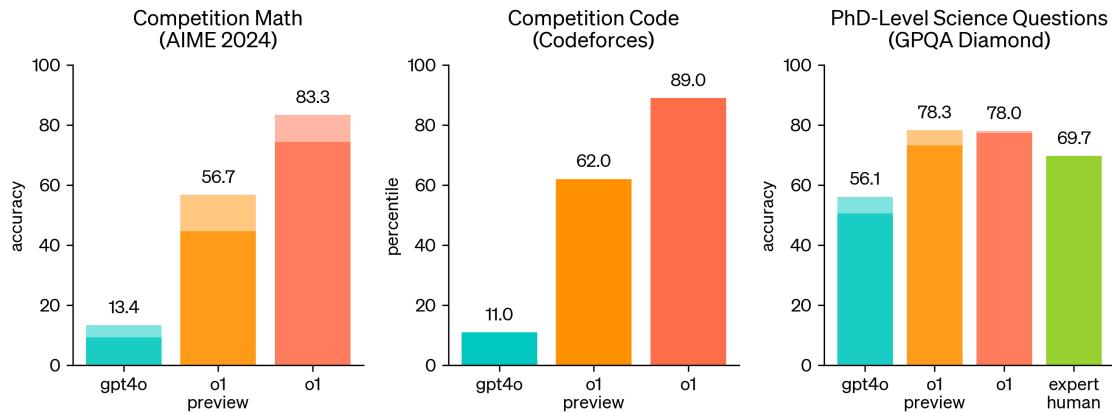
Andrej Karpathy

Founder, Eureka Labs

Ilya Sutskever and Andrej Karpathy, whom I mentioned in the first lecture, are notable co-founders of OpenAI. Ilya Sutskever completed his undergraduate, master's, and PhD studies at the University of Toronto, where he was supervised by Geoffrey Hinton. Hinton describes Ilya as a visionary.

Andrej Karpathy earned his undergraduate degree at the University of Toronto, a master's degree at the University of British Columbia, and a PhD at Stanford under the supervision of Fei-Fei Li. He served as the Senior Director of AI at Tesla and is renowned for his significant contributions to AI education. You will encounter more about Andrej Karpathy later in the course.

2024-09-16 (and 2024-09-18)



OpenAI released [o1](#) on September 12, 2024: “o1 greatly improves over GPT-4o on challenging reasoning benchmarks. Solid bars show pass@1 accuracy and the shaded region shows the performance of majority vote (consensus) with 64 samples.”

2024-09-16 (continued)

Videos:

- [Building OpenAI o1](#)
- [Coding with OpenAI o1](#)
- Scott Wu: OpenAI o1 & [Coding](#)
- Catherine Brownstein: [Genetics](#)
- Mario Krenn: [Quantum Physics](#)
- OpenAI o1 [playlist](#)

The videos in this playlist range from 1:17 minute to 3:17 minutes in duration.

2024-09-23

“The next season of the [#Complexity

podcast]
(<https://santafe.edu/culture/podcasts>),
**The Nature of

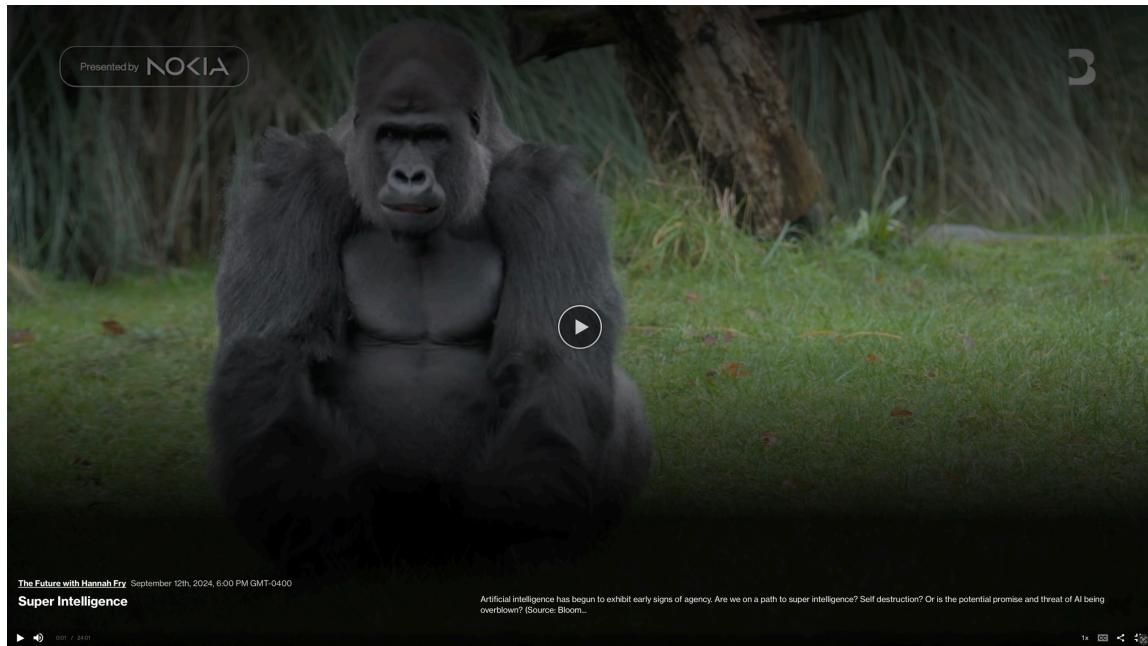
Intelligence', explores this question through conversations with **cognitive and neuroscientists, animal cognition researchers, and AI experts in six episodes."'"

2024-09-25

<https://youtu.be/hubWluuz-e4>

2024 Waymo Safety Impact Report was published on 2024-09-05. Waymo is a subsidiary of Alphabet inc., Google's parent company. It operates robotaxi services in 4 US cities.

2024-09-30



Super Intelligence from The Future with Hannah Fry aired September 12th, 2024.

2024-10-07

Clément Delangue, Hugging Face CEO, discusses AI for good. Specifically, the development by IBM and NASA of an open-source AI model for weather and climate analysis.

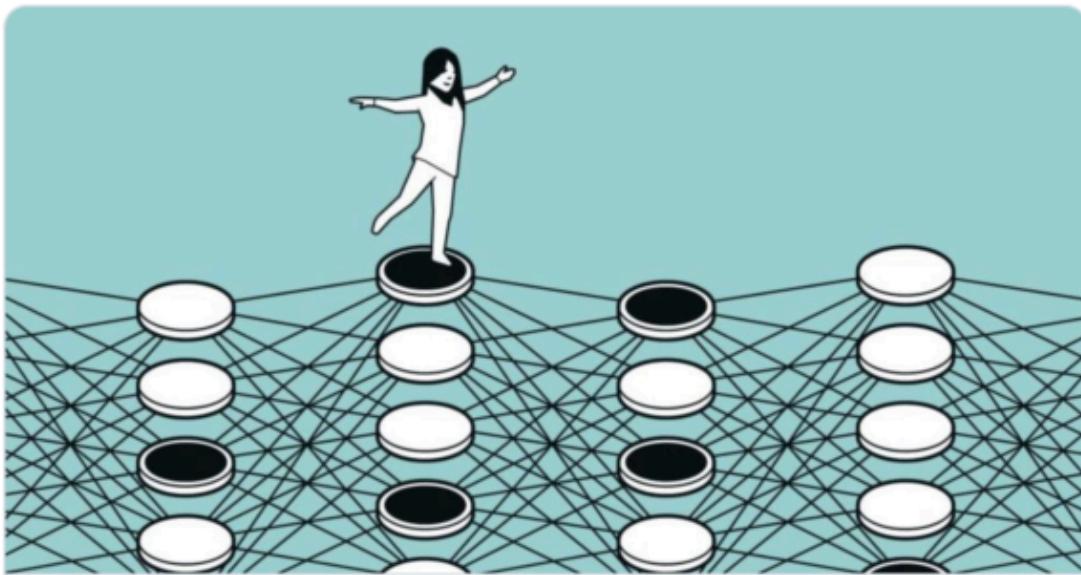
2024-10-09



Marcel Turcotte

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Excited to see Geoffrey Hinton and John Hopfield awarded the 2024 Nobel Prize in Physics for their foundational contributions to machine learning and artificial neural networks! #ML #ANN #DL www.nobelprize.org/prizes/physi...



The Nobel Prize in Physics 2024

The Nobel Prize in Physics 2024 was awarded to John J. Hopfield and Geoffrey E. Hinton "for foundational discoveries and inventions that enable machine learning with ..."

www.nobelprize.org

October 8, 2024 at 7:16 AM Everybody can reply

The Nobel Prize in Physics 2024 was awarded to John J. Hopfield and Geoffrey E. Hinton "for foundational discoveries and inventions that enable machine learning with artificial neural networks"

2024-10-21

Sir Demis Hassabis is the Co-founder and CEO of Google DeepMind, a leading company dedicated to addressing some of the most complex scientific and engineering challenges of our era to propel scientific advancement. A chess prodigy from the age of four, Hassabis achieved master-level proficiency by 13 and served as the captain for several England junior chess teams. In 2024, he was awarded the Nobel Prize in Chemistry for his contributions to the development of AlphaFold.

2024-10-28

[Yann LeCun](#), recognized as one of the three pioneers of deep learning and the inventor of Convolutional Neural Networks (CNNs), frequently engages in discussions with [Elon Musk](#) on the social media platform X (previously known as Twitter).

2024-10-30

2024-11-04

2024-11-06

2024-11-11

2024-11-25

https://youtu.be/RV_SdCfZ-0s

2024-11-27

Marco-o1: Towards Open Reasoning Models for Open-Ended Solutions

Yu Zhao*, Huifeng Yin*, Bo Zeng, Hao Wang, Tianqi Shi, Chenyang Lyu, Longyue Wang, Weihua Luo, Kaifu Zhang

MarcoPolo Team, Alibaba International Digital Commerce

Currently OpenAI o1 sparks a surge of interest in the study of large reasoning models (LRM). Building on this momentum, Marco-o1 not only focuses on disciplines with standard answers, such as mathematics, physics, and coding—which are well-suited for reinforcement learning (RL)—but also places greater emphasis on open-ended resolutions. We aim to address the question: “Can the o1 model effectively generalize to broader domains where clear standards are absent and rewards are challenging to quantify?” Marco-o1 is powered by Chain-of-Thought (CoT) fine-tuning, Monte Carlo Tree Search (MCTS), reflection mechanisms, and innovative reasoning strategies—optimized for complex real-world problem-solving tasks. The project homepage is: <https://github.com/AIDC-AI/Marco-o1>.

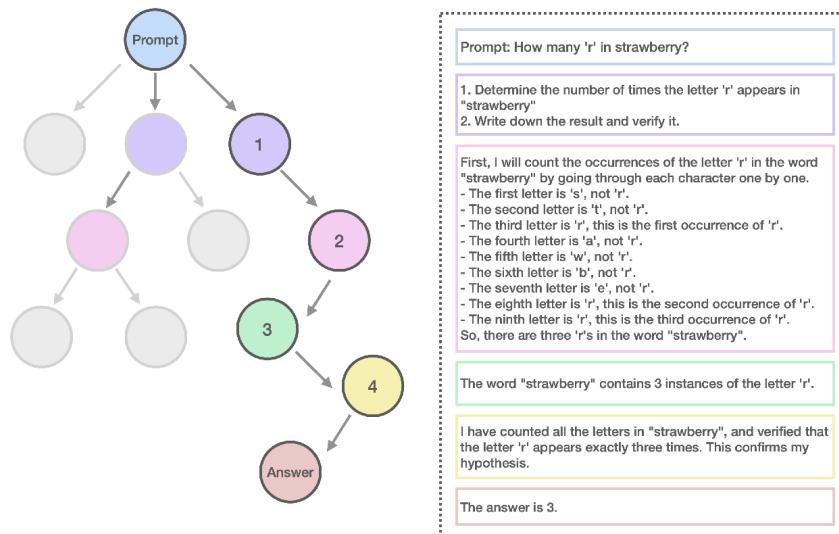


Figure 1 | A classic question reasoned by our Marco-o1 model: “How many ‘r’s are in ‘strawberry’.”

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