FACTSHEET: GPT-4 SUMMARY
MARCH 2023

Organisation: OpenAI

Model name: GPT-4

Internal/project name: DV, DV-3, Davinci 31

Model type: Multimodal (Visual language model)

Parameter count:

- 1 trillion (1,000 billion) parameters

- 5.7x bigger than GPT-3 (175 billion parameters)

- 14.3x bigger than Chinchilla (70 billion parameters)

- 0.8% the size of the human brain by count of synapses (125 trillion synapses)

Dataset size (tokens):

- 20 trillion (20,000 billion) estimated tokens

- 40x bigger than GPT-3 dataset (499 billion tokens)

- 8.5x bigger than DeepMind MassiveText English (2.35 trillion tokens)

- 4x bigger than DeepMind MassiveText Multilingual (5 trillion tokens)

- 7.1x bigger than Google Infiniset (2.81 trillion tokens)

Training data end date: September 2021

Convergence date: August 2022

Release date (public): 14 Mar 2023

Official paper: https://cdn.openai.com/papers/gpt-4.pdf

Playground & API: https://openai.com/playground

Model capabilities:

- Language understanding and generation

- Image recognition and generation

- Multimodal understanding (text and images)

- Advanced reasoning and problem-solving

- Conversational abilities

Notable applications:

- Content creation (writing, editing, summarising)

- Automated customer support

- Translation and language learning

- Creative projects (storytelling, poetry, artwork)

- Data analysis and visualisation

- Virtual assistants and chatbots

- Gaming and entertainment

Known limitations:

- Knowledge limited to training data (cutoff: September 2021)

- Occasional generation of incorrect or nonsensical answers

- Sensitivity to input phrasing and context

- May require multiple attempts for desired output

- Inherent biases present in the training data

Ethical considerations:

- Responsible AI usage guidelines

- Measures taken to mitigate biases and negative outcomes

- Ongoing research to improve model transparency and accountability

- Collaboration with external partners for third-party audits and research

- OpenAI's commitment to long-term safety research and public good

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