

What stands out about the Gemini 1.5 Pro is its long-context understanding across modalities. Google claims that the Gemini 1.5 Pro is capable of achieving similar results as the recently launched Gemini 1.0 Ultra, albeit with much less computing power. And, the most outstanding aspect of the Gemini 1.5 Pro is its ability to process the amount of information by up to one million tokens consistently. This is certainly the longest context window for any large-scale foundation model developed yet. To put into perspective, the Gemini 1.0 models have a context window of up to 32,000 tokens, GPT-4 Turbo has 1,28,000 tokens and Claude 2.1 has 2,00,000 tokens.

The Gemini 1.5 Pro can reportedly ingest up to 7,00,000 words or about 30,000 lines of code. This is 35 times more than what Gemini 1.0 Pro can take in. Besides, the Gemini 1.5 Pro can process up to 11 hours of audio and 1 hour of video in a wide range of languages. The demo videos posted on Google's official YouTube channel showed the long context understanding of the model by using a 402-page-long PDF. The demo also showed a live interaction with the model based on the PDF file as prompt, which was 3,26,658 tokens and had 256 tokens worth of images. The demo used a total of 3,27,309 tokens.

Reportedly, in a preview, Google said that the Gemini 1.5 Pro with a 1 million-token context window will be free to use. Google may introduce pricing tiers in the future on the model that starts at 1,28,000 context windows and will scale up to 1 million tokens.

Gemini 1.5 Pro is a new frontier in Google's AI developments. In December last year, Google introduced its most flexible AI model Gemini 1.0 in three different sizes, including Gemini Ultra, Gemini Pro, and Gemini Nano. At the time of launch, Google claimed that its Gemini 1.0 surpassed several state-of-the-art performances on a range of benchmarks including coding and text. The Gemini series has been known for its next-generation capabilities and sophisticated reasoning. All Gemini sizes have been known for their multimodality — the ability to understand text, images, audio and more

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