

# AI and Machine Learning

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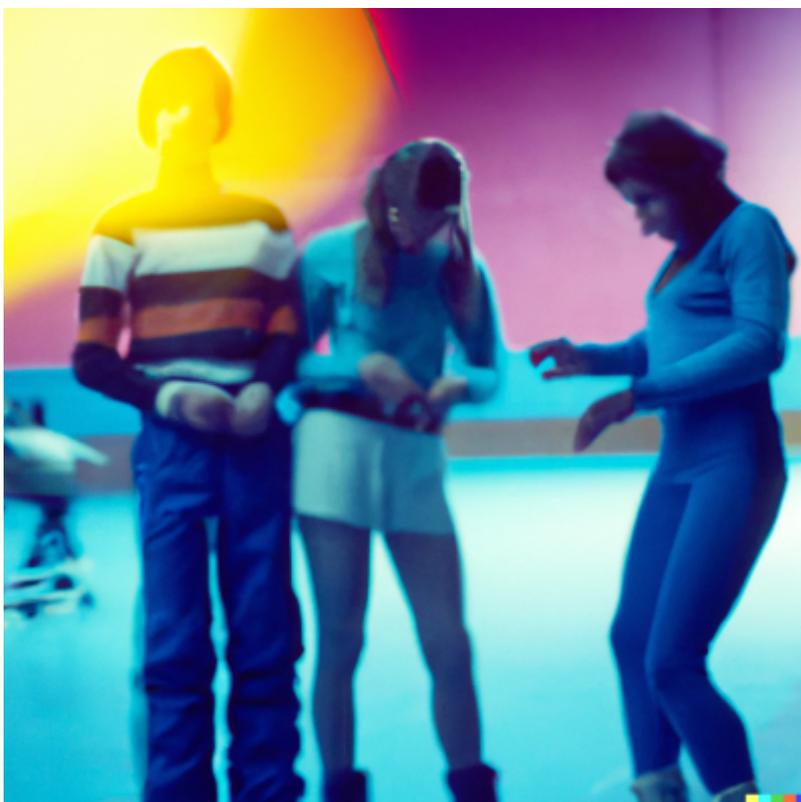
2022 round up of current prompt based AI systems available for the public.

## Open AI - DALL-E 2

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Example;

Text prompt with DALL-E 2 - A ultra high resolution photo of teenagers in the 1980s at a roller skating rink, bright colours, photography, ultra details, Natural Light, Boken



### Midjourney

Stable Diffusion models -

*What is Stable Diffusion in AI? Stable Diffusion is a deep learning, text-to-image model released in 2022. It is primarily used to generate detailed images conditioned on text descriptions, though it can also be applied to other tasks such as inpainting, outpainting, and generating image-to-image translations guided by a text prompt. Stable Diffusion's code and model weights have been released publicly, and it can run on most consumer hardware equipped with a modest GPU. This marked a departure from previous proprietary text-to-image models such as DALL-E and Midjourney which were accessible only via cloud services. - [Wikipedia](#)*

[Stability AI](#)

[Hugging Face](#)

## **Terminology**

AI - Artificial Intelligence

ML - Machine Learning

Deep Learning

Text to Image

Inpainting

Outpainting

Neural network

Diffusion model

Latent diffusion

## **Resources**

[Prompt Engineering](#)