Gaurab Patra

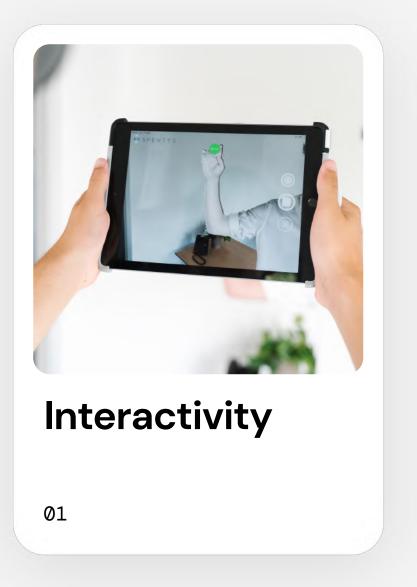
# Generative A enabling

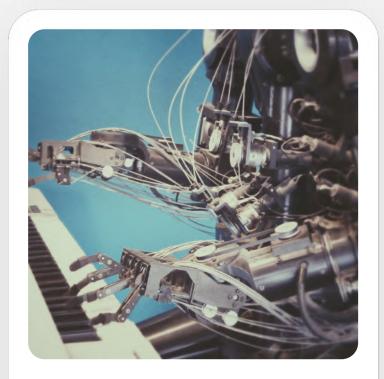
crowdsourced interactivity



May 18, 2023 gaurab@flurgo.com

#### What does that mean?





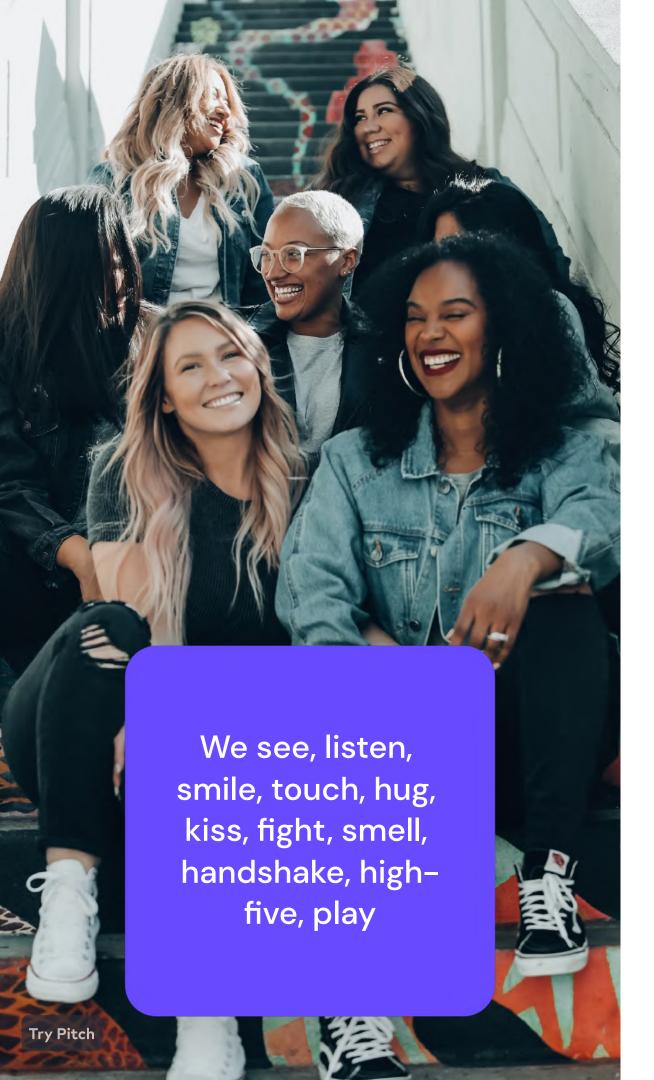
Generative Al

02



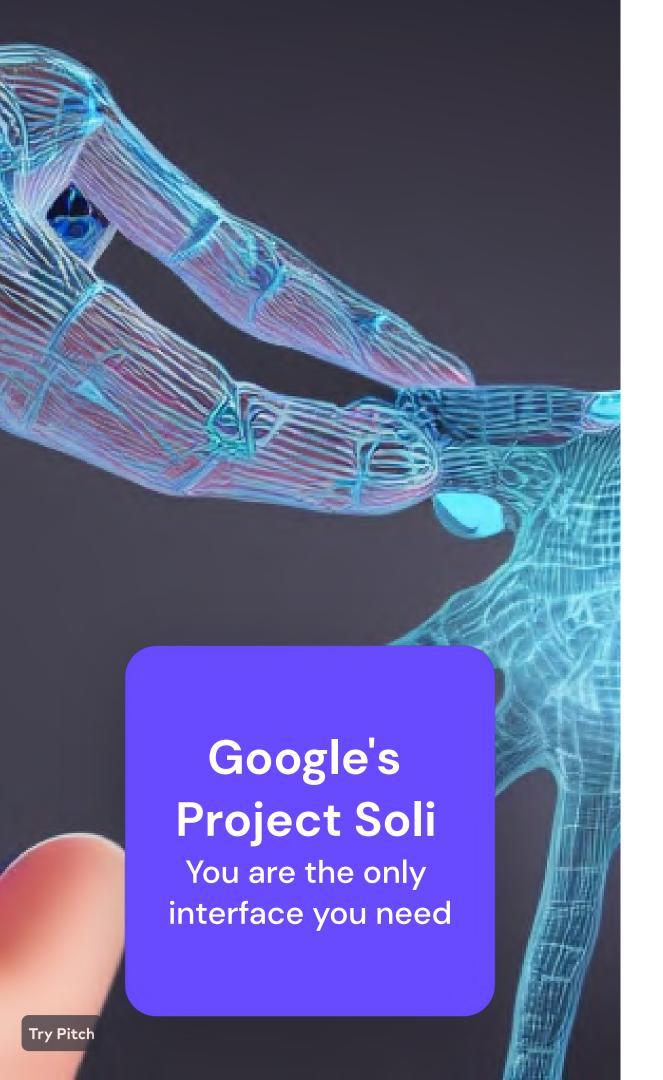
Crowdsourcing

03



#### Human-to-Human Communication

- Complex, multiple modalities
- Richer context and Effective
- Verbal and Non-verbal
- Speech
- Hand gestures
- Facial expressions, Eye-motions
- Body languages
- Collaborative interactions

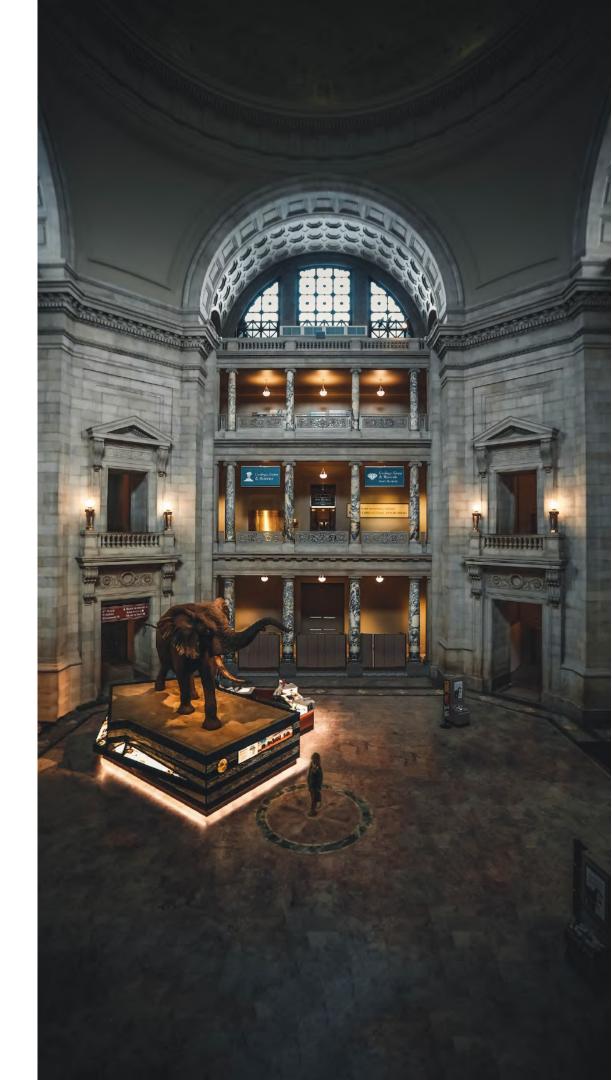


#### Human-to-Machine Communication

- Graphical interface
- Touch, Swipe, Play
- Natural language
- Voice interface
- Gesture and motion control
- Brain computer interface
- Augmented reality
- Haptic feedback technology
- **Autonomous machines**

The elephant in the room Generative AI

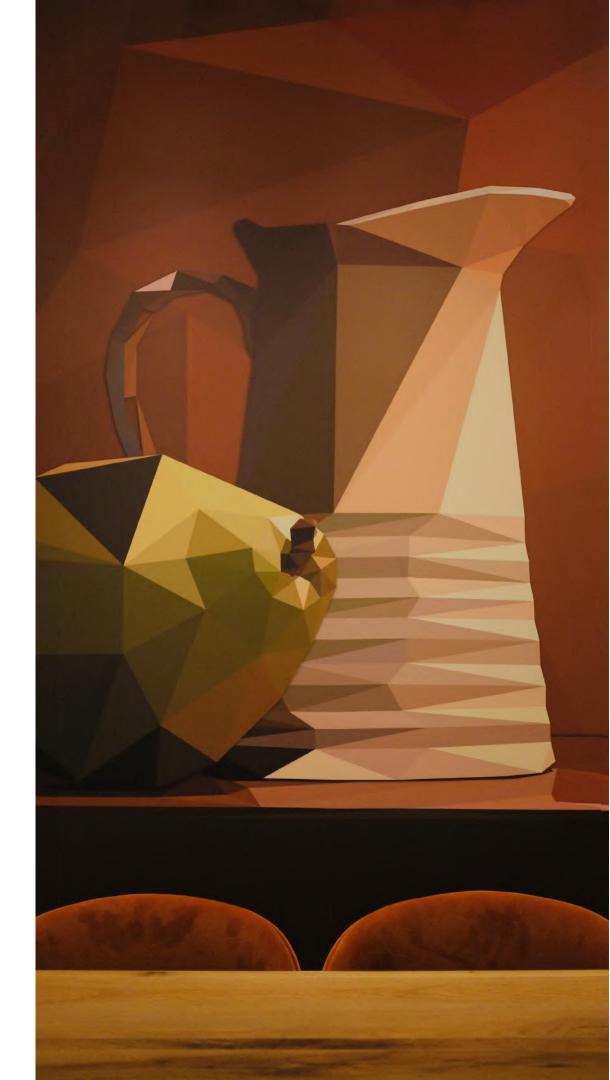
Class of deep learning models that use unsupervised learning techniques to generate data that is similar to the input data



The elephant in the room (contd.)

Generative AI

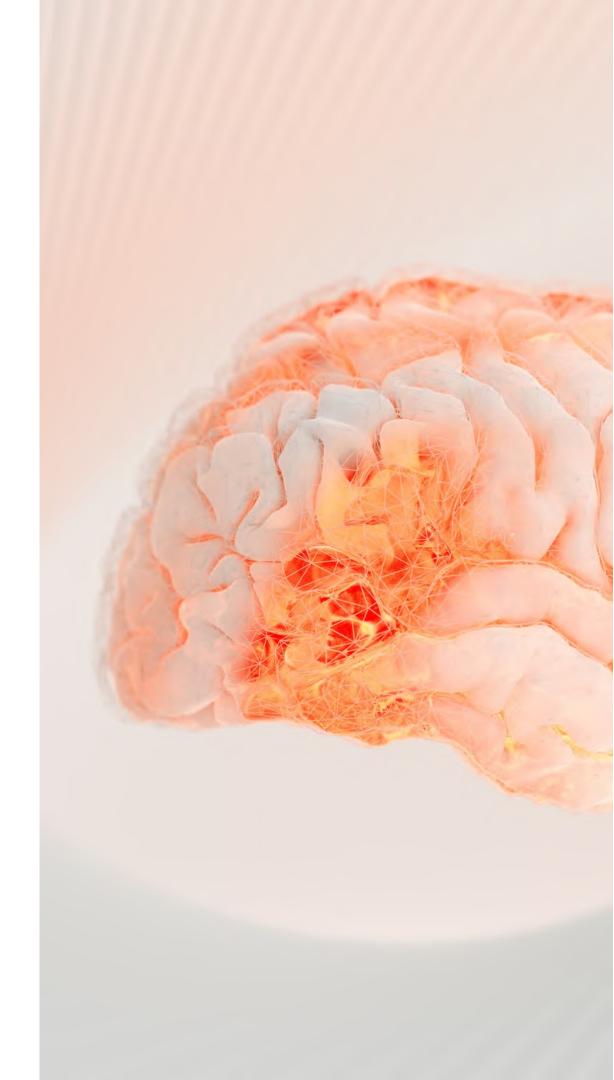
Generative Adversarial Networks (GANs), which can generate high-quality images, musics and videos



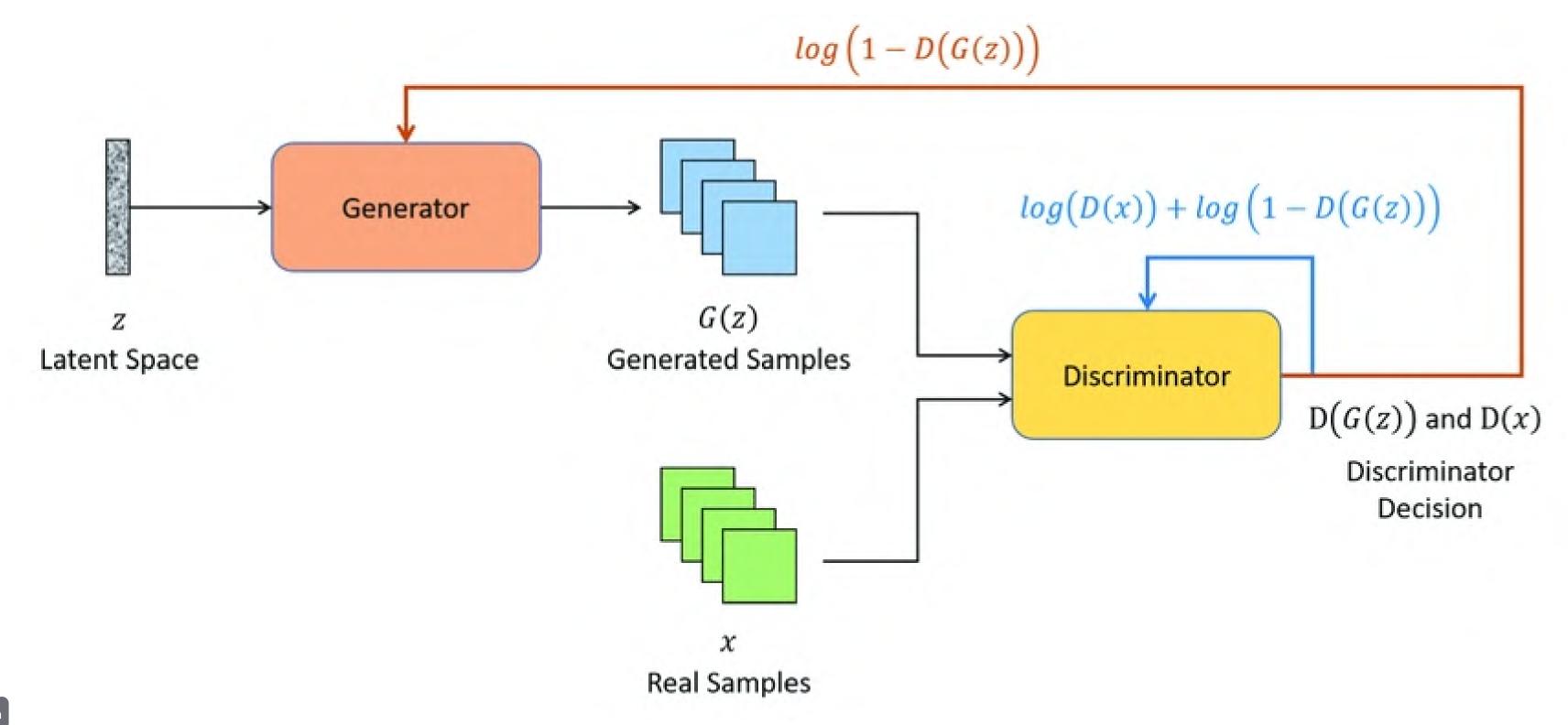
The elephant in the room (contd.)

Generative AI

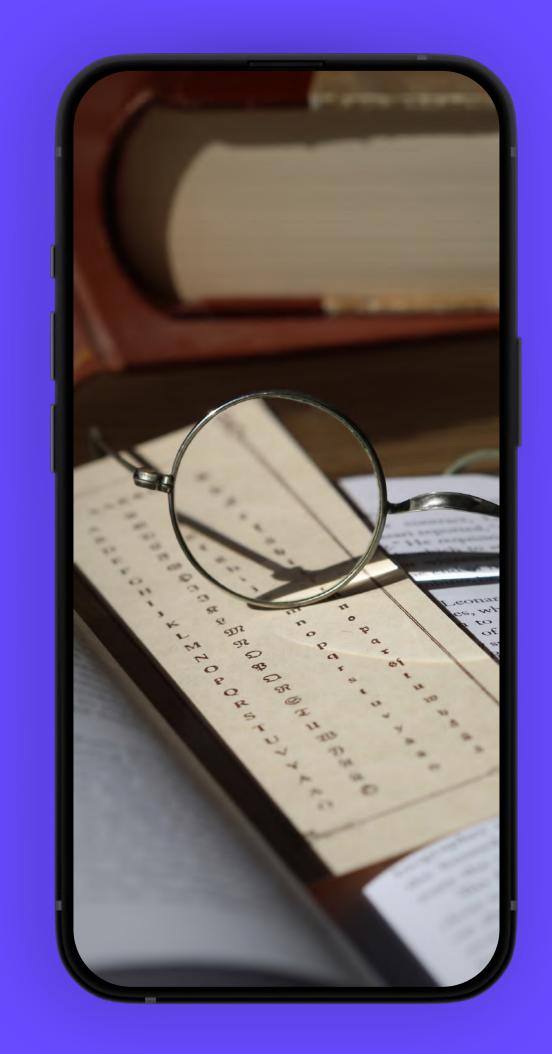
Language generative models, such as GPT, are based on deep neural networks that use transformers to process and generate natural language text.



#### GAN Architecture

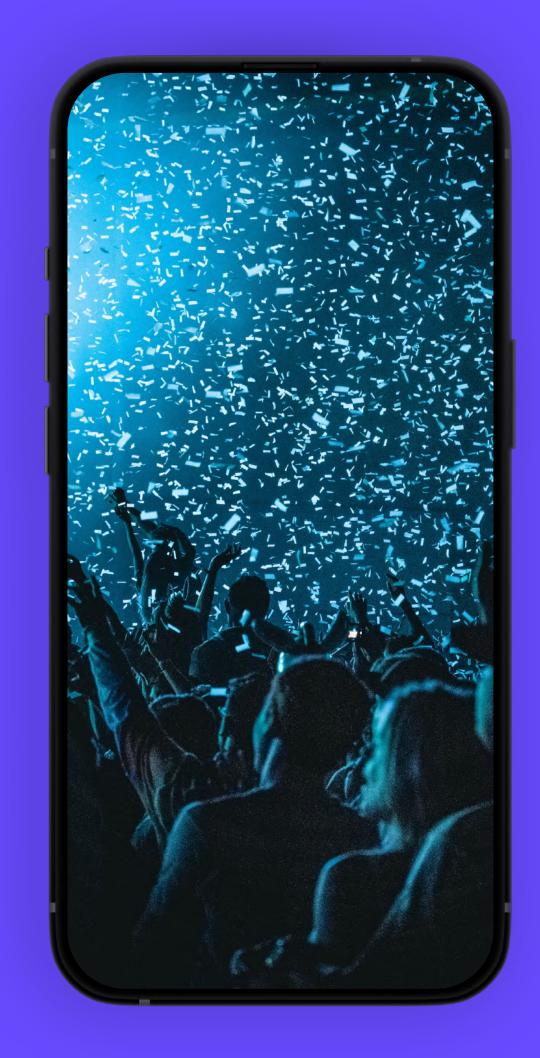


# Process and understand human language at scale



# GANs enables generating inputlike output

crowdsourced?

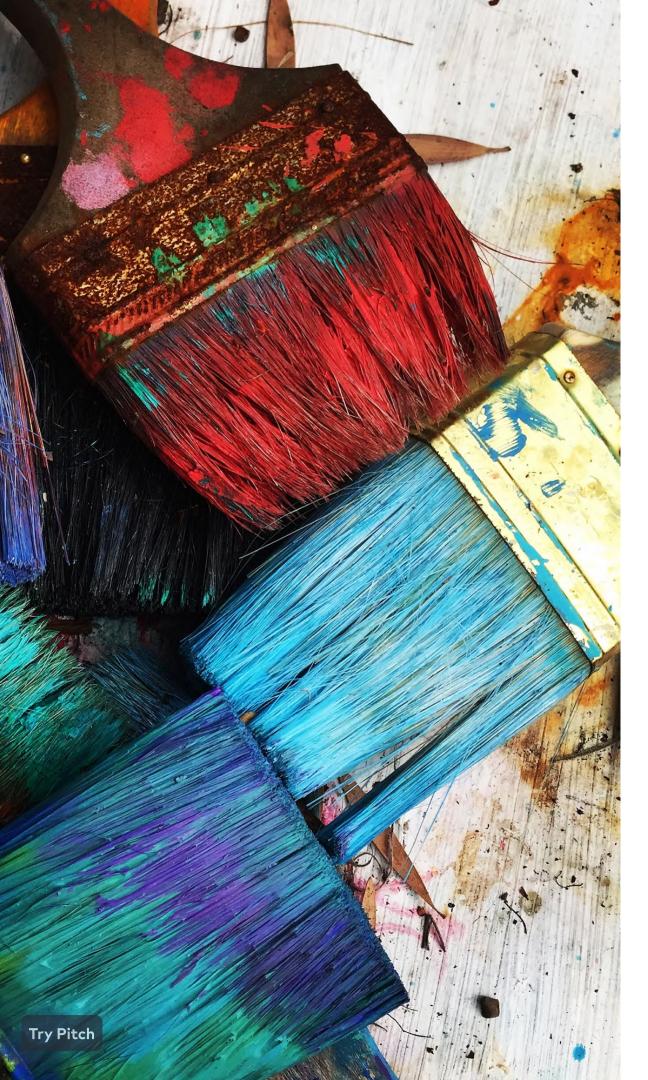




## Generative Al is at the foundation building stage

- ✓ Improved Training Techniques
- Better Understanding of the Models
- Multimodal Generation
- Controlled Generation
- Incorporating Prior Knowledge





#### Crowdsourcing for interactivity

- Diverse range of perspectives and ideas
- Efficient Scale Speed
- Idea generation
- Iterations and experimentation
- Combining and remixing
- Contextual Awareness
- Personalization and Adaptability
- Multi-Modal Interfaces
- Collaboration

#### Image Synthesis



Unicorn running on the mars



Unicorn running on ice surface

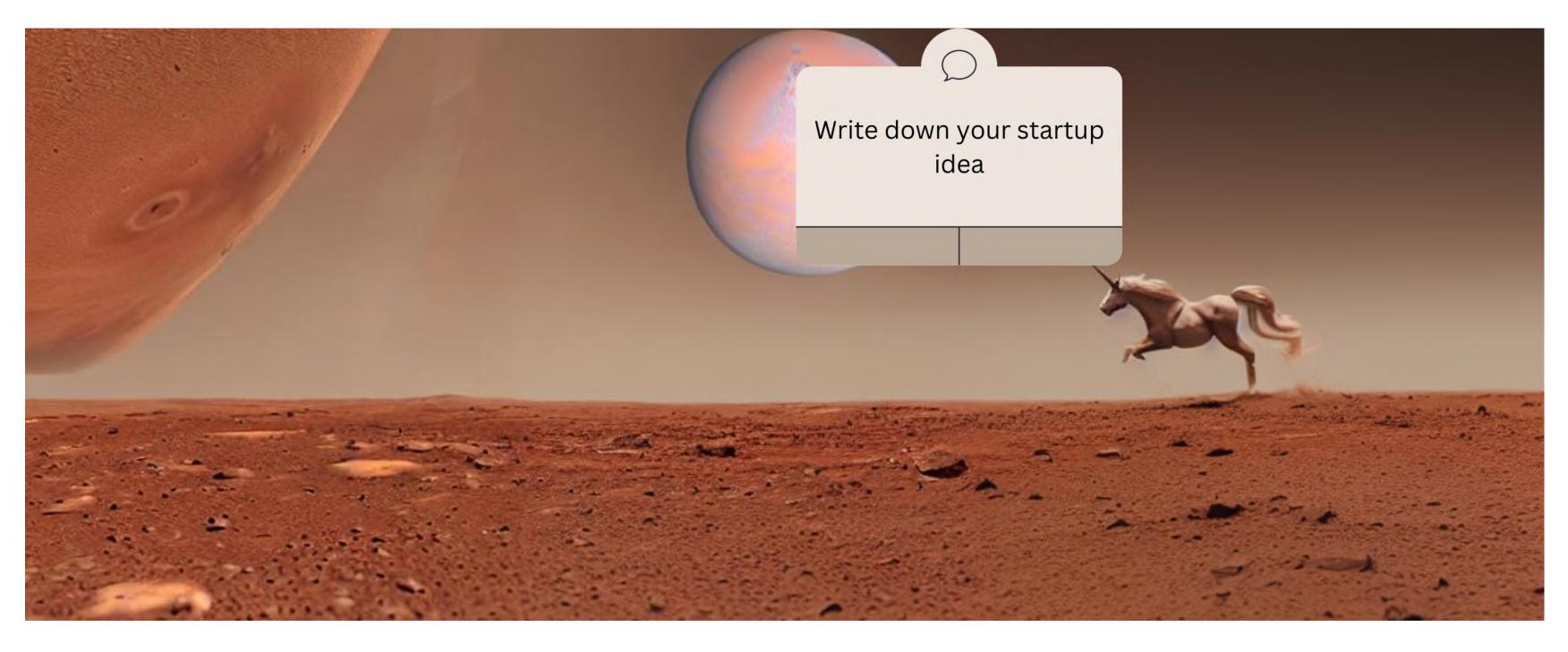


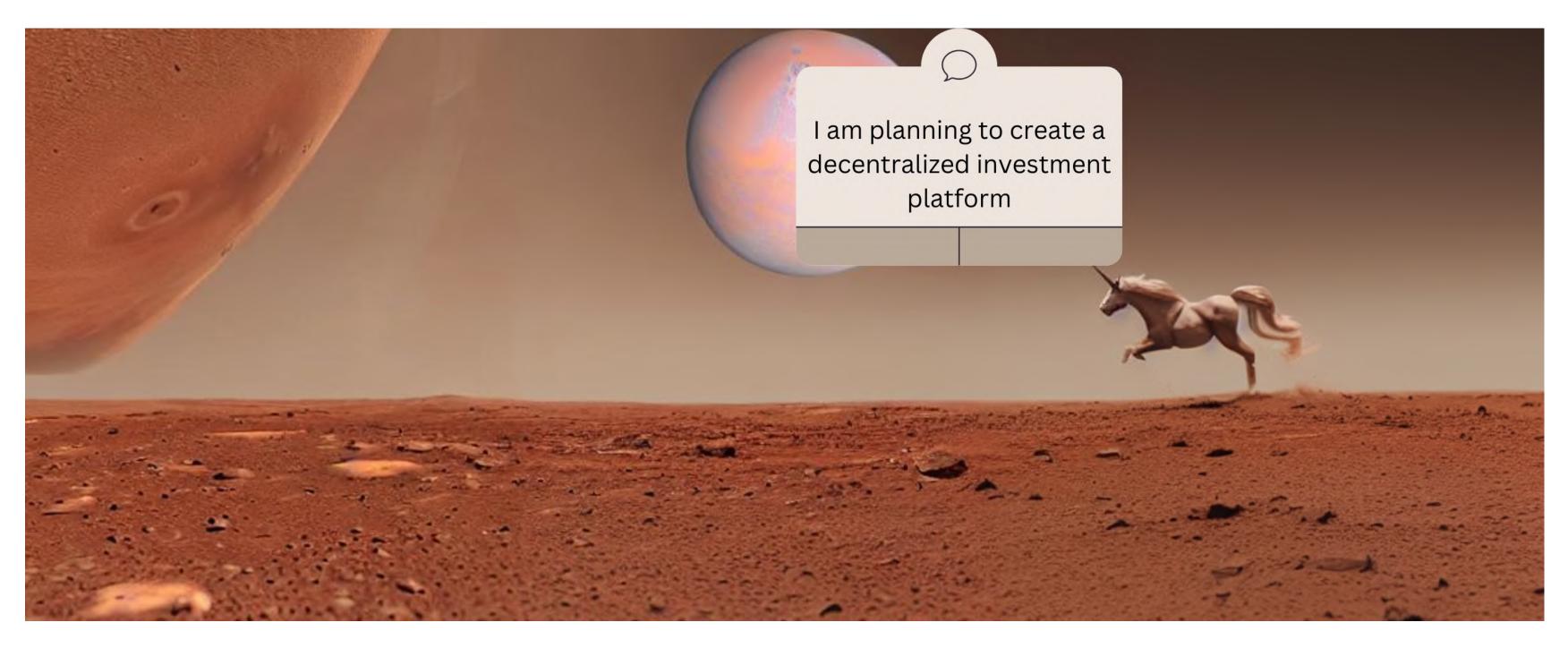
Unicorn running on marble surface

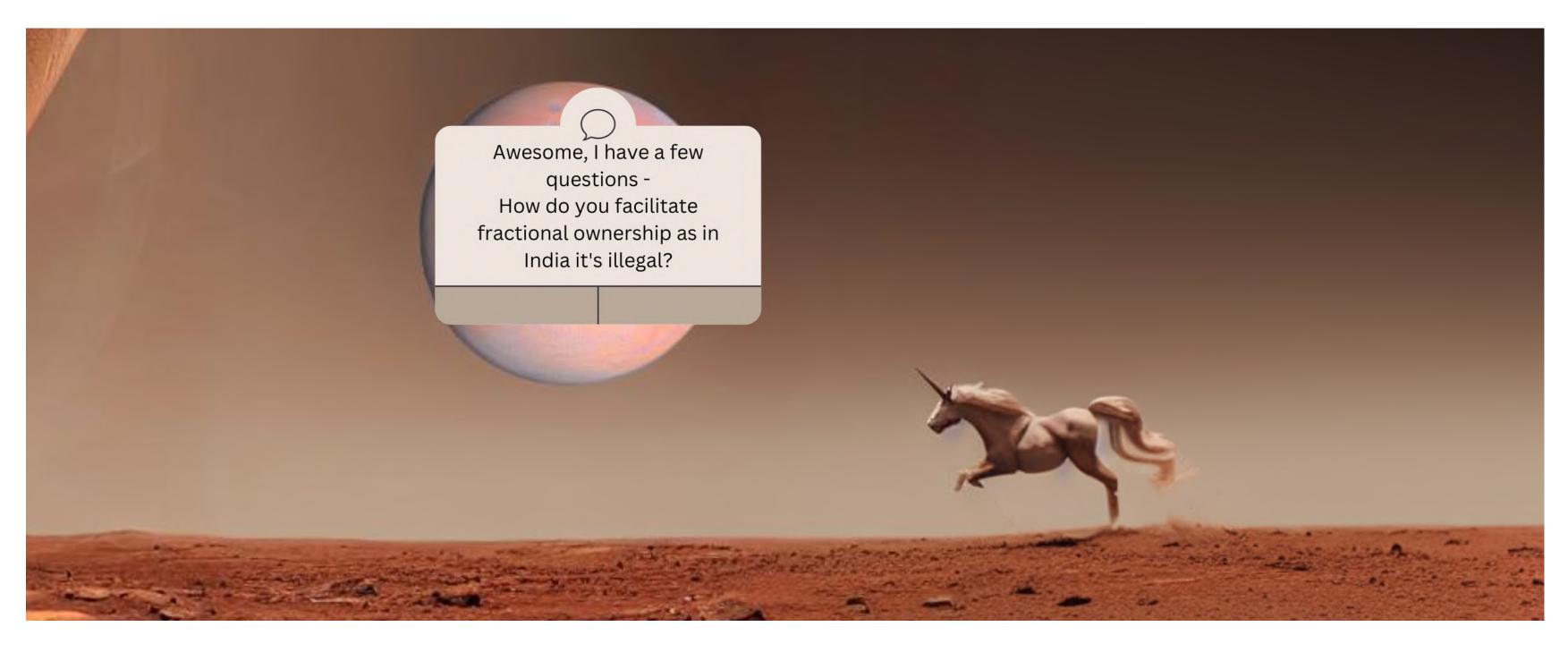
#### Image Extension

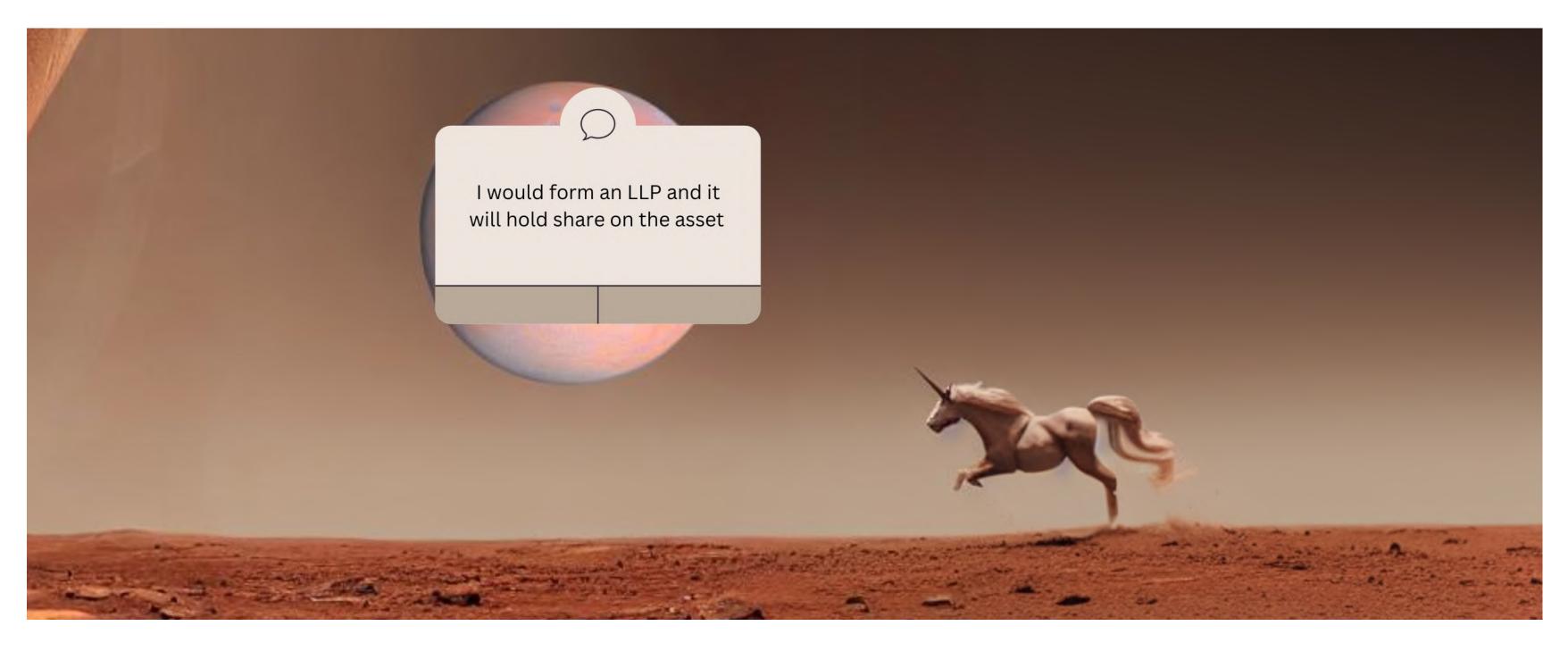


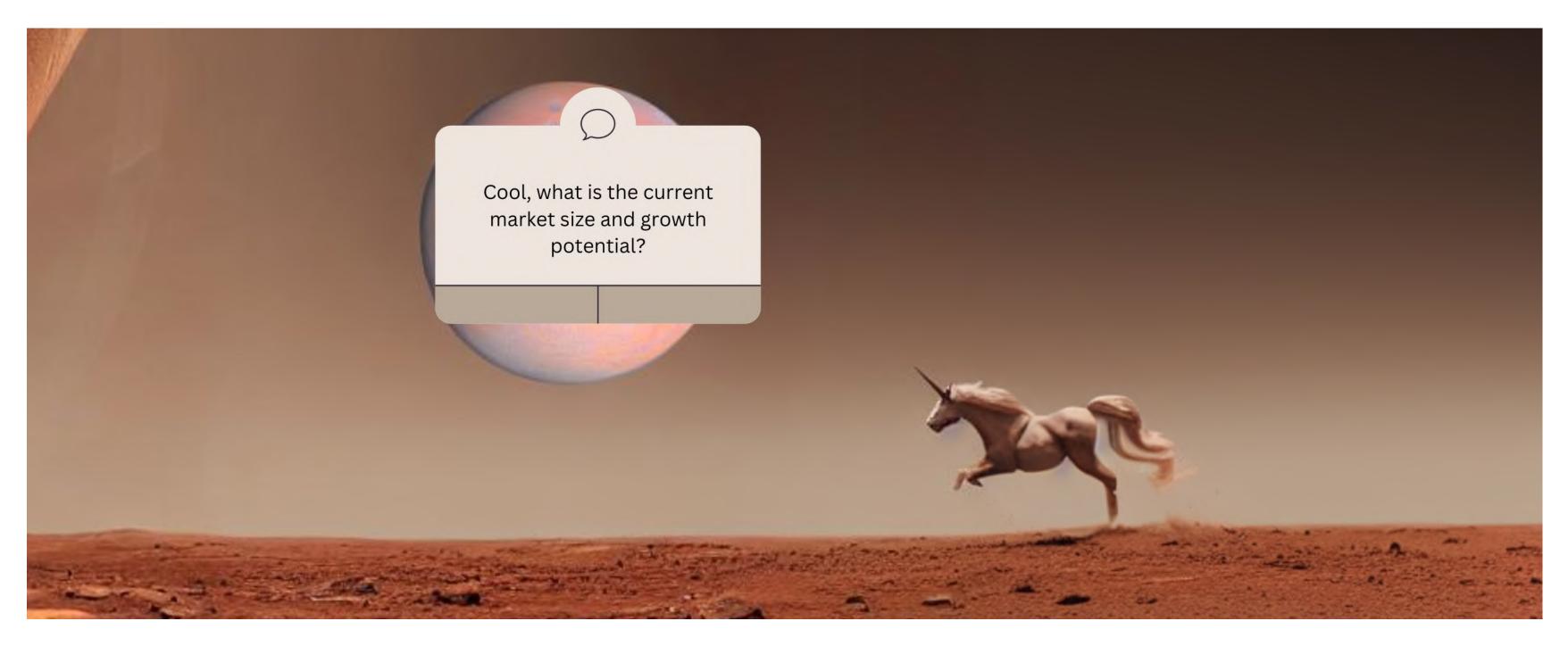
Imagination is expanded with a context aware generation

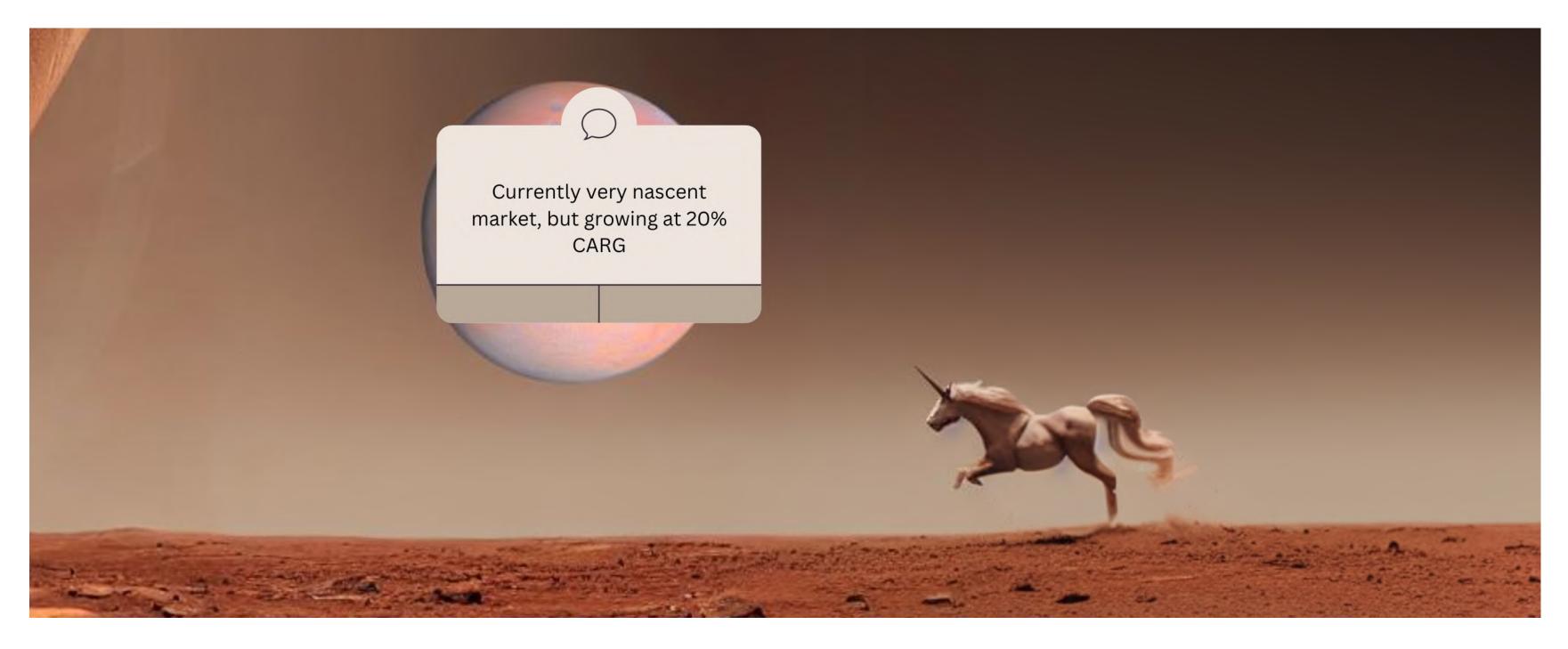


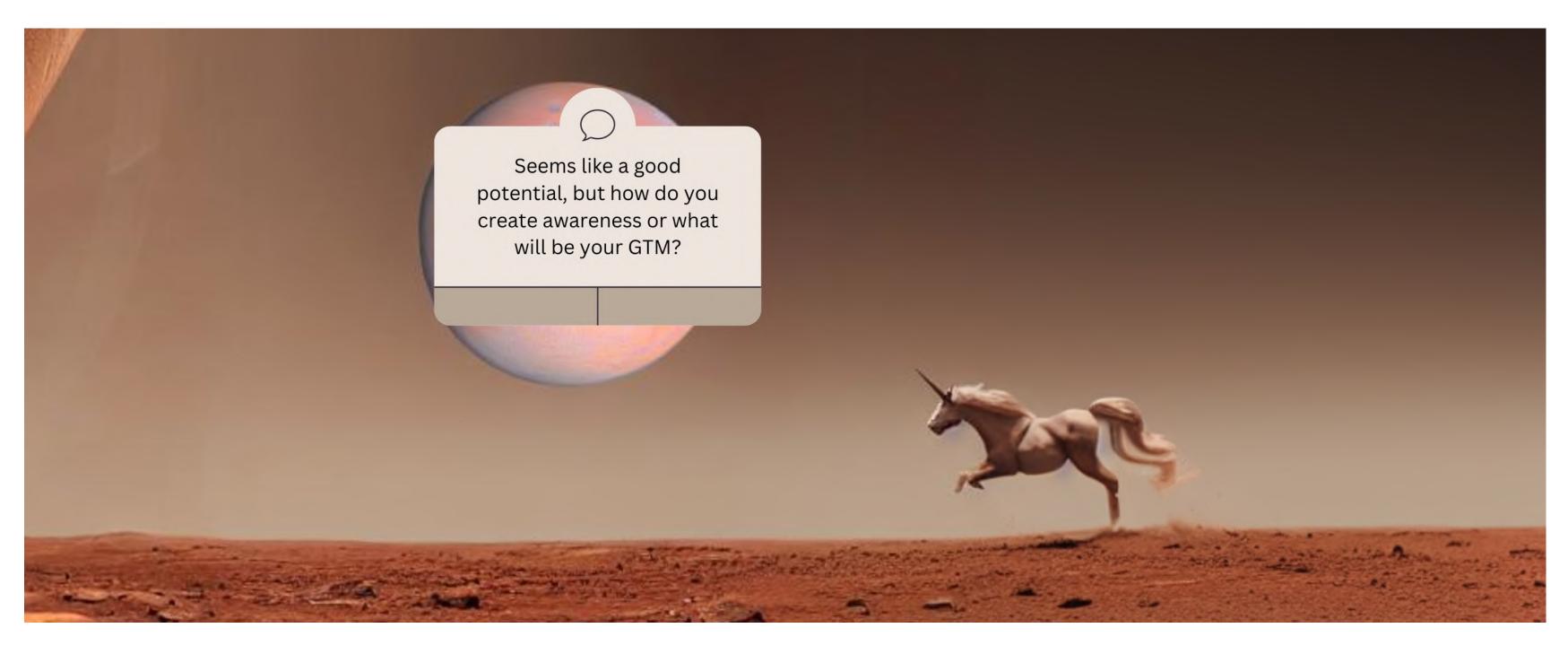












## Coperate with machines, don't operate