AI / Product

Modeler.AI

Definition

We have noticed a lot of research discussing 3D-GAN and how to describe shapes created in three dimensions using GAN models, the best method to approach 3D-GAN, in our opinion (area of expertise), is by comprehending and respecting how 3D forms operate in 3rd-dimensional environments and how humans recognize distinctive features in any geometry since Rhino/Grasshopper is the ideal program for comprehending and analyzing 3D geometry, we turned Pytorch 1.11.0 into Torch.NET [.NET Framework 4. X] which is powered by NVIDIA CUDA 11.3 with GPU CUDA, a scenario that took us 3 months to apply. [Thanks to SciSharp as well produced Torch.NET with.NET Core three years ago]

We are confident that this strategy will greatly assist many ML Engineers and Architects in using Deep Learning (GPU) inside Rhino/Grasshopper or even Revit/Dynamo, 3D-GAN & 3D Features to prevent the extrapolation of memory usage. When using the 3D Features Extractor, you can regulate the output geometry's resolution by using a fixed number of vertices. (Fixed number of vertices = fixed memory use) You may extract all the features from scanned geometry and/or Point Cloud data with the aid of a 3D Features Extractor.

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Our product aims for a set of customers that would benefit from its services based on:

1. Fields: whether you are a Designer or an Architect or from any field that includes 3D Modeling, this tool will be of assistance.

2. Needs: the design process requires some solutions to save time and effort which can be attained using this service.

3. Values: Companies or individuals that include developed technological services in their infrastructure are more reliable than others that use traditional solutions the thing that will gain client's trust.

4. Academic range: its application is wide open for any 3D modelers; you can be a passionate student with a 3D modeling approach or a big industry that utilizes 3D modeling in I products.

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Competitors

- Dream Fusion (Google Inc.) https://dreamfusion3d.github.io/

Pros

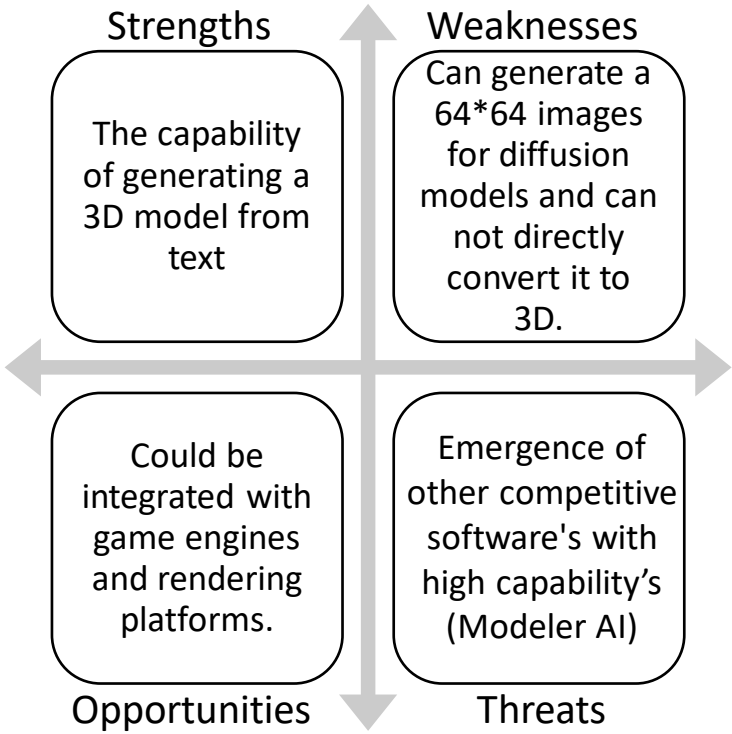
- Capable of generating a 3D model from an image Its capable of generating a 3D model from an image generated by the imagen text-to-image diffusion model to understand its angles better.

Cons

- It only provides the model in .STL/.PLY format
- can not create a 3D model without a diffusion model and can only use 64*64 images

Pricing

For now, its not open for testing therefore there is no pricing plans out yet.



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Competitors

- Dall-E 2 (Open AI) https://openai.com/blog/dall-e/

Pros

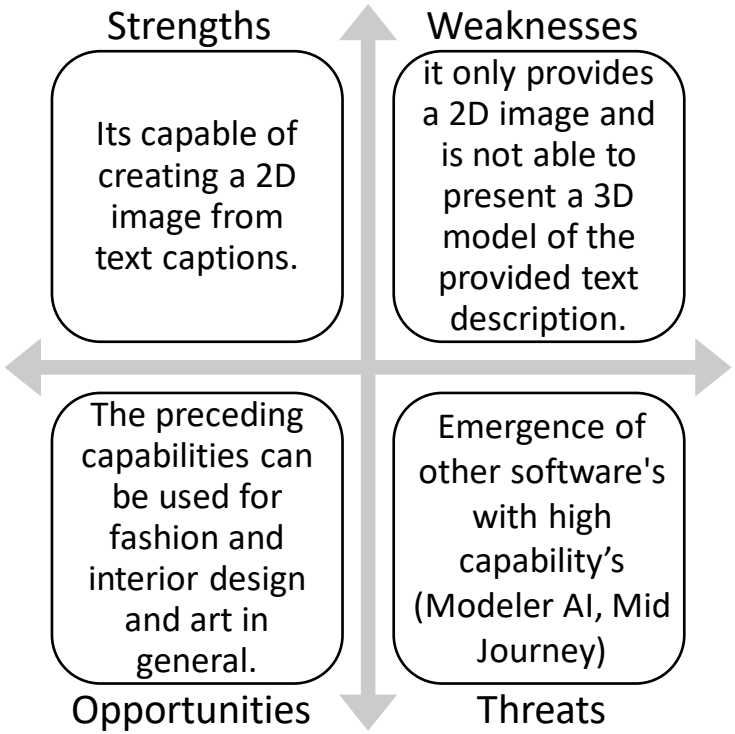
- ☐ capable of generating a 2D image from text captions by a trained neural network
- ☐ creating anthropomorphized versions of animals and objects, combining unrelated concepts in plausible ways

Cons

- ☐ yet it only provides a 2D image and is not able to present a 3D model of the provided text description.

Pricing

currently free to use, but there is a catch. You're allotted 50 free credits during your first month's use and 15 free credits after that.



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Competitors

- Mid journey https://www.midjourney.com/

Pros

- ☐ Generates a 2D image from text captions, It uses machine learning to create pictures based on text
- ☐ The MJ bot goes out and finds images that are like what you have described and combines them uniquely and artistically

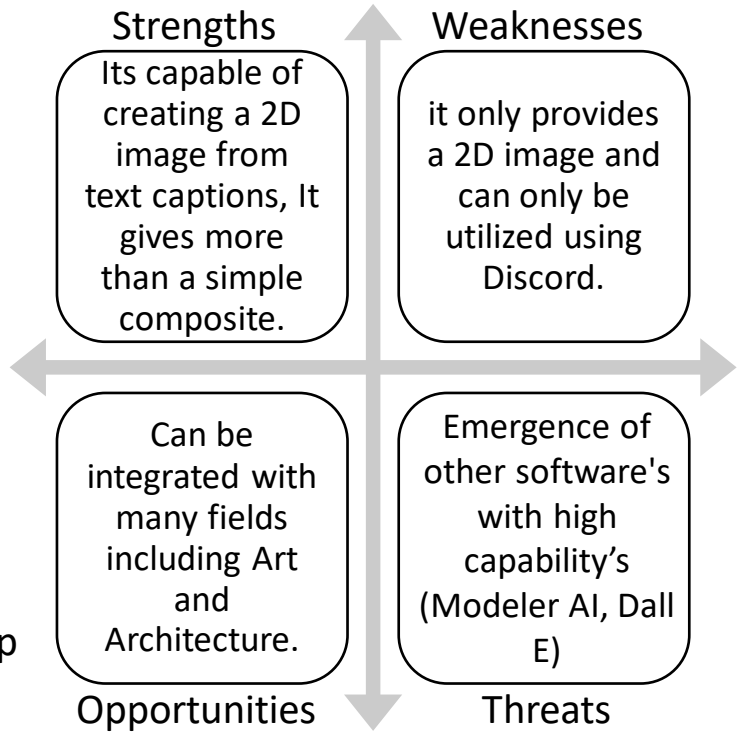
Cons

- ☐ It only provides a 2D image and is not able to present a 3D model of the provided text description
- ☐ Works only through Discord

Pricing

Currently Free but:

1. Basic Membership ($10/month)
2. Standard Membership ($30/month)
3. Private Visibility Option (+$20/month)
4. Incremental Billing ($4 for 60 GPU minutes)
5. Corporate Membership ($600/year)



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Competitors

- Kaedim 3D https://www.kaedim3d.com/

Pros

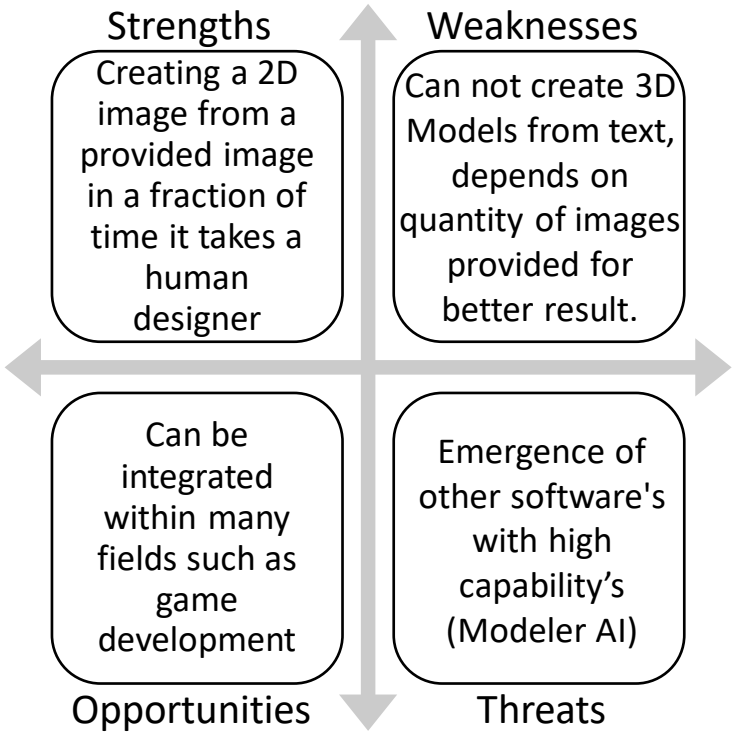
- Consumes an AI software to create a digital 3D content from 2D images in a fraction of the time it takes human designers

Cons

- Unable to create the 3D content from plain text
- Efficiency of the result is affected by how many vies you provide for the model

Pricing

The service is subscription-based, with pricing starting at $299/month – which makes it possible to generate up to 30 models and request up to 10 iterations – and rising to $7,700/month for up to 1,000 models.



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Competitors

- NVIDIA AI (GET3D) https://nv-tlabs.github.io/GET3D/

Pros

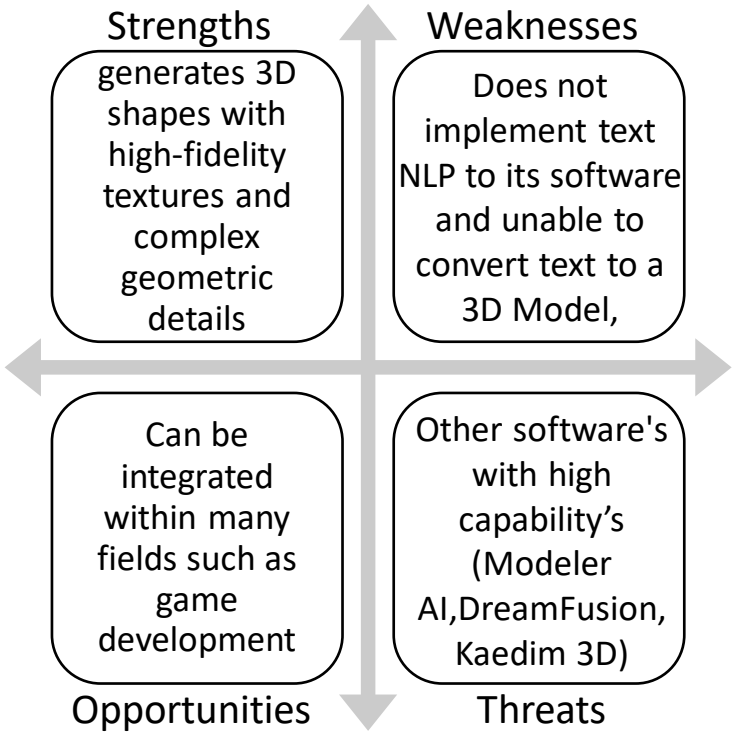
- ☐ Trained using only 2D images
- ☐ Generates 3D shapes with high-fidelity textures and complex geometric details

Cons

- ☐ Does not implement text NLP to its software meaning it is unable to convert text to a 3D Model
- ☐ Only trains on 2D images to create a 3D Model with the image's features.

Pricing

its free to use, with the use of the NVIDIA Source Code Licence.



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RoadMap