Cali Technology Solutions A Product



BIM.AI



Definition

BIM.AI: BIM system powered by AI for generative design Automation & Structural analysis to shorten ETA and increase Accuracy.

In our fieldwork, there is a competitive company like:

- 1. ArchiStar
- 2. Architectures
- 3. Conix

They have many features on their platform, and we will present the Pros, cons, and SWOT Analysis to compare them with our company.

Cali Technology Solutions Al / Product - BIM.Al



Competitors

ArchiStar Company: https://www.archistar.ai/

Pros	Cons

Urban planning	☐ Basic Form
Urban planning	

- ☐ Different option of forms ☐ Limit LOD Plans 100
- ☐ Create Database of the city embedded by Governance database
- Create Project Reports

Site selection

Pricing



Starter

\$495 / month



Pro

\$895 / month



Elite

\$2495 / month

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Competitors

Architectures Company: https://architechtures.com/		Pricing	
Pros	Cons		Most Popular (Save 25%)
☐ Introduction of Design Criteria and Modelling	The platform depend on	Pro Monthly	Pro 12 Months
Custom Bill of Quantities in the projects	Cloud systems No structure analysis.	950€ /month	850€ /month Billed annually
Generation of the BIM solution and Project Data		Start 15 days free trial	Start 15 days free trial



Competitors

Conix Company: https://conix.ai/assets/conix-landing/index.prod.html

Pros	Cons	Pricing	
		Up to \$10M revenue	Up to \$20M revenue
Provide many design options.	Limit solutions for plans		
☐ Workshop drawings.	Basic shop drawing LOD100	\$249 - \$699	\$699 - \$1290
Create templets for Façade	No structure analysis	Starter	PRO
Choosing site depend on (Setback, Front view	Limit Templets of furniture		
,Dimension).			

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Our Product / Pros-Cons

CALI Technology solutions Company: https://www.cali.global/

CALI Technology solutions	company. https://www.cam.giobai
Pros	Cons
Open Al-GH (Text2Code)	☐ No MEP System in (road map)
Using LOD300 In projects	
Modular.Al	Lack of MEGA project
Above 410 thousand plans	Database like (Hospital, Commercial, Airport)
Many option of furniture	☐ No 5,6,7 BIM.AI (Road
Structural Analysis	map)

Competitor SWOT Analysis

Strengths

Database cloud , urban planning analysis and templets Façade design

Weaknesses

Lack database on Structural analysis, limited plans and design templets

Developed the platform to create more options on design and analysis

Opportunities

The Competitors reach the same level that we are working on

Cali Technology Solutions Al Product



Modeler.Al



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.



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 1 products.

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Competitors

Pros

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

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

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.

Strengths

The capability of generating a 3D model from text

Weaknesses

Can generate a 64*64 images for diffusion models and can not directly convert it to 3D.

Could be integrated with game engines and rendering platforms.

Opportunities

Emergence of other competitive software's with high capability's (Modeler AI)

Threats

better.

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Competitors

Dall-E 2 (Open AI)

https://openai.com/blog/dall-e/

Pros

Cons

Pricing

allotted

currently free

to use, but

there is a

catch. You're

free credits

during your

first month's

use and 15

free credits

after that.

50

Strengths

Its capable of creating a 2D image from text captions.

Weaknesses

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

capable of generating a image from text captions by a trained neural network

creating anthropomorphized versions of animals and objects, combining unrelated concepts in plausible ways

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

text

The preceding capabilities can be used for fashion and interior design and art in general.

Opportunities

Emergence of other software's with high capability's (Modeler AI, Mid Journey)

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It only provides a 2D

image and is not able

to present a 3D model

of the provided text



Competitors

Pros

and

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

them



Generates a 2D image from text captions, It uses machine learning to create pictures based on text

combines

uniquely and artistically

The MJ bot goes out and
Works only through like Discord what you have described

description

Pricing

Currently Free but:

- 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)

Strengths

Its capable of creating a 2D image from text captions, It gives more than a simple composite.

Weaknesses

it only provides a 2D image and can only be utilized using Discord.

Can be integrated with many fields including Art and Architecture.

Opportunities

Emergence of other software's with high capability's (Modeler AI, Dall E)

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Competitors

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

Pros

Cons

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

☐ 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 subscription-based, with pricing starting at \$299/month which makes 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.

Strengths

Creating a 2D image from a provided image in a fraction of time it takes a human designer

Weaknesses

Can not create 3D Models from text, depends on quantity of images provided for better result.

Can be integrated within many fields such as game development

Opportunities

Emergence of other software's with high capability's (Modeler AI)

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Competitors

NVIDIA AI (GET3D)

https://nv-tlabs.github.io/GET3D/

Pros

images

Cons

Trained using only 2D

Does not implement text NLP to its software meaning it is unable to convert text to a 3D

Model

☐ Generates 3D shapes with high-fidelity textures and complex geometric details

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.

Strengths

generates 3D shapes with high-fidelity textures and complex geometric details

Weaknesses

Does not implement text NLP to its software and unable to convert text to a 3D Model,

Can be integrated within many fields such as game development

Opportunities

Other software's with high capability's (Modeler AI,DreamFusion, Kaedim 3D)



