



IntelliDecor

Furnish Futuristically with AI

INTRODUCTION

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- IntelliDecor is an interior design solution that uses AI and stable diffusion techniques to **provide clients with multiple design options for furnishing their empty rooms.**
- By leveraging OpenAI's powerful API, we are able to generate numerous design alternatives for clients to explore, **saving them time and resources** while helping them make informed design decisions.
- Our solution offers various features, including augmented reality integration, voice assistance, social media integration, and compatibility with smart home technology, among others.





MOTIVATION

MOTIVATION

- Many people struggle to visualize multiple design options without physically placing furniture and decor in the space, leading to a waste of time and resources.
- IntelliDecor seeks to meet this unique and unmet need in the market by offering a cutting-edge solution that leverages AI and stable diffusion techniques.



LITERATURE SURVEY

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- According to market research, the **global market for interior design services** was valued at **\$145.3 billion in 2020**, with a compound annual **growth rate of 5.5%**.
- This market is **expected** to continue to grow, with a forecasted market value of **\$210.0 billion** by 2027.
- Despite this growth, many people still struggle to visualize multiple design options without physically placing furniture and decor in the space.



PROBLEM STATEMENT



PROBLEM STATEMENT

- There is a market niche for interior design services for empty rooms, as many people struggle to visualize multiple design options without physically placing furniture and decor in the space.
- This uses time and resources, as clients has to physically set up and take down multiple design configurations.

OBJECTIVES AND SCOPE

- According to market research, the **global market for interior** design services was valued at **\$145.3 billion in 2020**, with a compound annual growth rate of 5.5%.
- This market is **expected** to continue to grow, with a forecasted market value of **\$210.0 billion by 2027**.
- By offering some kind of service, interior design companies can meet a unique and unmet need in the market.

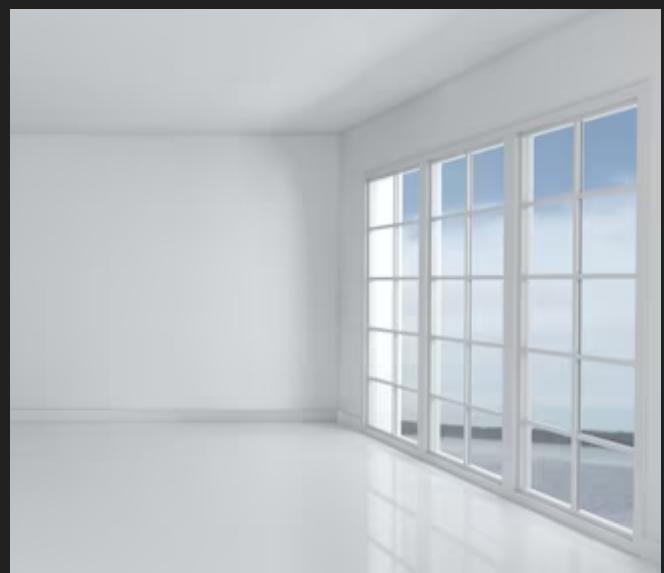


Proposed Methodology: Whisper + Stable Diffusion



What is Stable Diffusion?

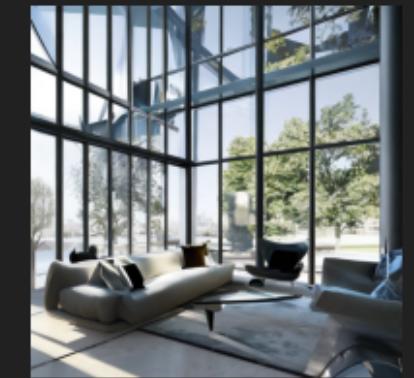
and how we are planning to implement it.



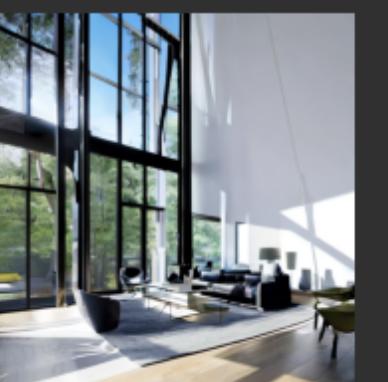
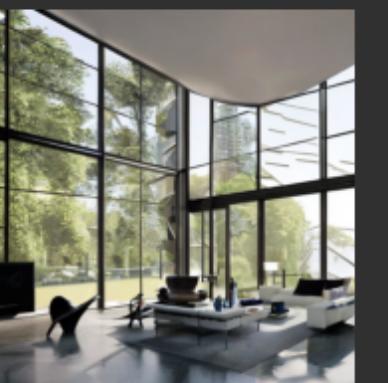
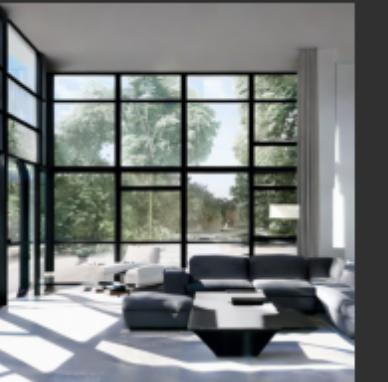
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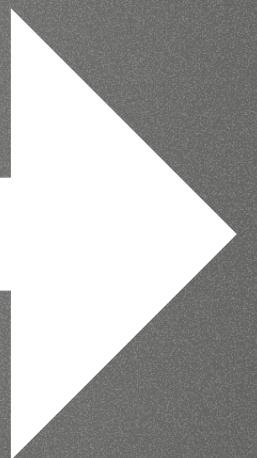
Prompt:
Black Sofa,
center peice,
rich look, vase



- Our solution utilizes the power of OpenAI's API and stable diffusion techniques to provide clients with **multiple alternatives for furnishing their empty rooms.**
- By passing a **specific descriptive prompt to the model** and letting the AI generate multiple design options, clients are able to explore a wide variety of options and find the **best fit for their space.**
- This **not only saves time and resources,** but also allows clients to see the potential of their empty room and make informed design decisions.



IMPLEMENTATION





FUTURE SCOPE

FUTURE SCOPE

1. Augmented Reality Integration
2. Voice Assistance
3. User Interface Enhancements
4. Social Media Integration
5. Compatibility with Smart Home Technology
6. Customized Product Recommendations
7. Collaboration with Interior Designers



RESULTS



audio

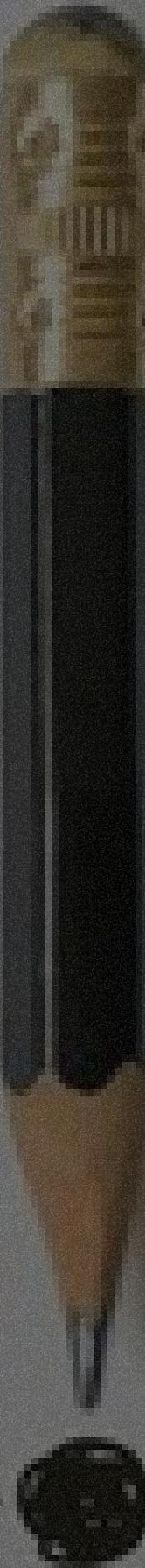
▶ 0:00

Clear

output

A large rectangular image showing a modern living room. The room features a curved, light-colored sofa and a matching armchair. A hexagonal coffee table with a dark base and a light-colored top sits in the center of the room. Large windows on the right side offer a view of a city skyline and greenery outside. The ceiling has a unique, curved design. The image is presented within a digital interface with a dark background, including a play button, a timeline at 0:00, and a 'Clear' button.

CONCLUSION



CONCLUSION

- Offers an easy-to-use interface that allows users to make real-time adjustments to design parameters.
- Revolutionizes interior design by providing new opportunities for designers, architects, and homeowners.
- Offers a powerful tool for anyone looking to create stunning interior designs.
- Sets a new standard for interior design, providing high-quality and unique designs that are difficult to achieve with traditional methods.

REFERENCES

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- Interior Design Services Market Size, Share & Trends Analysis Report By Service
- OpenAI. (n.d.). OpenAI API.
- Stable Diffusion. (n.d.). OpenAI.
- Wang, X., Liu, Y., & Zhang, J. (2019). A Review of Artificial Intelligence Techniques in Interior Design. *Frontiers in Artificial Intelligence*

