Creationscape of Gen Al: landscape of Ai generated

Ads

CAN AI GENERATED IMAGES BE USED FOR MARKETING?

This topic explores whether AI-generated images(logos or posters) are equivalently perceived as human-created.

If so then, who are my targeted audience(in relation to age)?



PRESENTATION

Creation-scape?



- advertising, as it incorporates new technologies like AI.
- □ It conveys the idea of a dynamic, expansive environment where AI-generated ads, posters, and creative designs are reshaping traditional processes.
- "Creationscape" suggests a broader view of how innovation, especially through AI, transforms how visual content is created, scaled, and adopted across industries.
- Lastly, it's a blend of "creation" (the act of making) and "landscape" (a broad, changing environment), making it ideal for discussing Al's adoption on the creative world.



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Motivation:



- A 2019 study found that 40% of respondents could not distinguish Al-generated art from human-created works, with many attributing deep emotional connections to Al-generated images, suggesting that Al can tap into emotional responses typically associated with human creativity.
- Literature highlights Al's ability to synthesize cultural elements from different regions, producing visual content that resonates with diverse, global audiences. This **cross-cultural adaptability** is something human designers find challenging on a large scale.
- □ In 2020, a landmark study revealed that many consumers are skeptical of the originality of Algebraiched content, leading to debates about whether Al truly creates or merely replicates.
- From an operational standpoint, AI-generated content has been found to cut design costs by 70% and reduce time to market by over 50%.
- □ In 2018, an AI-generated painting sold at auction for over \$432,500, showing that even in domains where human creativity is deeply valued, AI has the potential to be seen as a legitimate creative force.

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RESEARCH DEGINE & DECISION



BACKGROUND

- Role of images and ads in marketing: Visuals create emotional connections, improve brand popularity, and boost consumer engagement, making them vital tools in marketing.
- Usual ways: Traditionally, visuals are created by designers using tools like Photoshop, ensuring originality and human touch.
- If AI then what's the benefits :AI creates visuals faster, reduces costs, personalizes content for audiences, and allows large-scale campaigns with innovative styles.
- Why authenticity is important: Authentic visuals build trust, enhance consumer loyalty, and avoid skepticism about impersonal or misleading content.



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Applications in Advertising and Media

1. Future-Proofing Brand Communication:

As technology evolves, businesses need to stay relevant. Our research can help brands understand how different generations are adopting Al. By keeping up with these changes, companies can modernize their visual content to match trends. This ensures they stay connected to their audience not just today, but in the future as well.

2. Strategic Content Development:

The study can guide brands in creating content that appeals to specific age groups. For instance, younger people might prefer Al-generated visuals because they feel modern and innovative. On the other hand, older audiences might value human-made designs for their authenticity and emotional appeal. . By making logo on this preferences, brands can make their messaging more importantly.





প্রে: Applications in Advertising and Media

3. Ehical and Brand Trust Policies:

If we see that older people trust human-made content more than Al-generated content, brands need to be transparent. They can let customers know when they use Al in their creative work. This builds trust and reduces fear that Al might replace human creativity. For example, if a brand targets older audiences, they might want to show how AI helps rather than replaces the human touch.

4. Audience Segmentation and Personalization:

It can help brands understand how people of different age groups react to Al vs. human-made content. For instance, younger audiences might prefer Al visuals because they look modern, while older audiences might prefer something that feels more authentic. Brands can use this information to create targeted, personalized campaigns that feel just right for each group.

Here are some Al-Generated Ads:-









The Best Al-Generated Movie









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Blind Preference Surveys:

Show two images, one AI-generated and the other created by human hands, without any identification tags. Determine preferences, ratings, age, profession, and experience with AI applications before.

Introduction to Data Gathering Process

To judge the value and credibility of AIgenerated graphics, users will be asked to participate in a userinteractive survey, audience engagement, and social media observation.



Rating Exercise Audiences

Provide the audience with only pre-curated sets of AI and human-made visuals to rate their creativity, realism, and preference.

Capture demographic information in addition to their prior exposure to AI.



Social Media Analysis

Create a Facebook page reporting paired images, AI with human-made. Post Analysis: Do some analyses of likes and engagement for each post. The demographic analysis is conducted through public profiles of participants.



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Here's an example dataset that helps illustrate how preferences for Al-generated images vs. human-made images can be analyzed. The data is collected through blind surveys and social media engagement that describe the choices and demographics of participants

Example Dataset

Participant ID	Image Preference	Rating (1-5)	Age	Occupation	Used Al Before (Y/N)	Survey Type
001	Human	4	25	Graphic Designer	Υ	Blind Survey
002	Al	5	34	Engineer	N	Blind Survey
003	Human	3	22	Student	Υ	Social Media Feedback
004	Al	4	40	Teacher	N	Blind Survey
005	Al	5	29	Marketing Manager	Υ	Social Media Feedback
006	Human	2	19	Student	N	Blind Survey

Social Media Data Example

Post ID	Image Type	Likes	Shares	Age Group Most Engaged	Top Occupation Engaged
001	Human-Made	120	35	25-34	Teachers
002	AI-Generated	200	50	18-24	Students
003	Human-Made	140	45	35-44	Professionals
004	Al-Generated	180	60	25-34	Engineers

Manager Needback

O06 Human Z 19 Student N Blind Survey



Our target audience (e.g., general public, art enthusiasts, designers).-Gather a diverse sample of participants to ensure representative data.

Hypothesis for Al vs. Human-Created media

Quantitative & Qualitative Data:

Proportion of participants preferring Algenerated images versus human-created images.

Hypothesis Testing

Null Hypothesis (H0)

There is no significant difference between the proportion of people who choose Algenerated and human-created images.

Alternative Hypothesis (H1)

There is a significant difference between the proportion of people who choose AI-generated and human-created images.

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Test of proportions:

Once we collect the data then we can test whether Al generated images are adopted more or less than the human generated images by using t test of proportion.



1.Collect Data:

Survey participants to choose between AI and human images. Record their preferences along with demographic details.



2. Calculate Proportions

:p1: Proportion of people who preferred Al-generated images.

2: Proportion of peoples who preferred human-created images.



3. Statistical Test

Use a two-proportion t-test (if comparing two independent groups) or one-sample test (if comparing against a standard like 50% preference).



4.Decision Rule

If p-value < 0.05, reject H.0 . This indicates a significant difference in preferences between AI-generated and human-created images.

Regression Analysis

Purpose: To assess the relationship between independent variables (e.g., age, occupation, prior Al usage) and ladoption .



- Which image they preferred the most
- For Social Media Data: Likes.



- -Age.
- -Occupation.
- •Whether they've used AI before (binary: Yes = 1, No = 0)



Logistic Regression Use Case:

Logistic Regression

Use Case: When the dependent variable is binary, such as **preferred image type (Al =**

1, Human = 0).

Model:

Where

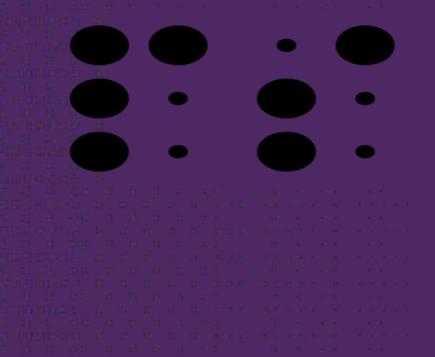
$$P(Y=1) = rac{e^{eta_0 + eta_1 X_1 + eta_2 X_2}}{1 + e^{eta_0 + eta_1 X_1 + eta_2 X_2}}$$

:P(Y=1): Probability of preferring Algenerated images

Xi: Independent variables (e.g., age, occupation)

Bi: Coefficients for predictors





Thank you

