Fashion Images Generation Part 1#2

Welcome to Part 1 of the Survey!

Introduction:

As part of my thesis research for the completion of my degree in Electrical and Computer Engineering at the National Technical University of Athens, I am conducting a human evaluation study focused on assessing the quality of fashion outfit images and descriptions generated by generative machine learning models and large language models. The purpose of this study is to gather valuable insights into the effectiveness and naturalness of the generated content, ultimately contributing to advancements in the field of artificial intelligence and fashion technology.

Objective:

The primary objective of this human evaluation is to gauge human perception and preference regarding the generated fashion outfit images and descriptions. By collecting feedback from participants, we aim to evaluate the quality, relevance, coherence, and overall impression of the generated content.

Procedure:

Initially, participants will provide demographic information to elucidate their background. Subsequently, they will engage in three separate experiments. The initial two experiments will involve evaluating both the image and description of a fashion outfit using an absolute rating method and predefined criteria. In the third experiment, participants will be tasked with comparing and ranking the outcomes of various methods.

In addition to the experiments, we have included here a brief reference on different styles of fashion along with some images of outfits that serve as a ground truth. These images are derived from online searches and are intended to provide participants with examples of various fashion aesthetics, enriching their understanding and appreciation of different styles.

Important: The survey consists of two parts, with the first part comprising the first and second experiments. The third experiment is included in the second part, which follows after completion of this initial segment.

Instructions:

Please carefully examine each fashion outfit image and each outfit description.

Rate every question based on the provided criteria.

Confidentiality:

Your responses will remain anonymous and confidential. They will only be used for research purposes and will not be shared with any third parties.

Disclaimer: Your email will be used solely for cross-validation of users between the two experiments and for no other purpose.

Conclusion:

Your participation in this human evaluation study is greatly appreciated and will contribute to advancing our understanding of the capabilities and limitations of generative machine learning models and large language models in the context of fashion outfit generation. Thank you for your valuable input.

* Ind	licates required question	
1.	Email *	
		_

Tutorial on Styles

In the realm of fashion, various styles reflect individual preferences, cultural influences, and personal expression. Below, we present a brief overview of some prominent styles to enhance your understanding as you evaluate the generated fashion outfits:

- 1. **Casual Style:** Casual fashion emphasizes comfort and practicality without sacrificing style. It often includes relaxed silhouettes, comfortable fabrics, and versatile pieces that can be easily mixed and matched. Common elements of casual attire may include jeans, t-shirts, sneakers, and loose-fitting tops.
- 2. **Classic Style:** Classic fashion embodies timeless elegance and sophistication. It revolves around refined silhouettes, neutral colors, and tailored pieces that exude timeless appeal. Key staples of classic attire include tailored blazers, button-down shirts, pencil skirts, and well-fitted trousers.
- 3. Bohemian Style: Bohemian fashion embraces free-spiritedness, creativity, and a laid-back attitude. It draws inspiration from diverse cultures, nature, and artistic influences. Boho attire often features flowy fabrics, eclectic patterns, layered textures, and accessories such as fringe, beads, and feathers.
- 4. Gothic Style: Gothic fashion is characterized by its dark and dramatic aesthetic, drawing inspiration from themes of mystery, romance, and subculture. It typically incorporates black clothing, intricate lace, leather accents, and bold accessories like chokers and statement jewelry. Gothic attire often evokes a sense of rebellion and individuality.
- 5. Sporty Style: Sporty fashion merges functionality with style, reflecting an active and dynamic lifestyle. It encompasses athleisure wear, performance fabrics, and athletic-inspired pieces that blur the lines between activewear and everyday clothing. Sporty attire may include leggings, hoodies, sneakers, and streamlined silhouettes designed for movement.

Gothic Style



Bohemian Style



Casual Style



Sporty Style



Classic Style





Demographic information

2.	Please specify your age range. *
	Mark only one oval.
	<u> </u>
	18-30
	31-40
	41-50
	51-60
	61+

3. Please indicate your gender identity. *
Mark only one oval.
Male
Female
Non-binary
Prefer not to say

. What is your primary occupation? *						
Mark only one oval.						
Student Employed full-time Employed part-time Self-employed Unemployed Retired Other:						
Is your primary occupation related to art? * Mark only one oval. Yes No						
What is your highest level of education completed? * Mark only one oval. High school or equivalent Bachelor's degree Master's degree Doctoral degree Other:						

7.	How interested are you in fashion on a scale of 1 to 5 (1 being not interested, 5 being very interested)?						
	Mark only one oval.						
	1 2 3 4 5						
	Not						
8.	How familiar are you with machine learning and artificial intelligence technologies on a scale of 1 to 5 (1 being not familiar, 5 being very familiar)? Mark only one oval.	*					
	1 2 3 4 5 Not						
9.	How often do you engage with fashion-related content or activities (e.g., shopping, reading fashion magazines, following fashion influencers) on a weekly basis? Mark only one oval.	*					
	Rarely or never Once a week 2-3 times a week Almost daily Every day						

10.	vynich cultural background or region do you identify with?
	Mark only one oval.
	North America
	South America
	Europe
	Asia
	Africa
	Australia/Oceania
	Other:
11.	What is your proficiency level in English? *
	Mark only one oval.
	Native/fluent
	Proficient
	Intermediate
	Basic
	Not proficient
12.	Have you participated in similar studies or experiments related to fashion before? *
	Mark only one oval.
	Yes
	○ No

13.	Have you participated in similar studies or experiments related to machine learning before?					
	Mark only one oval.					
	Yes					
	◯ No					

First Experiment

Instructions: You will be shown a fashion outfit image along with the style, the gender/ type of person wearing it and the occasion and asked to evaluate its visual appeal, relevance, creativity, coherence, and overall impression. Please provide your feedback relative to each aspect mentioned.

Style: gothic

Gender/Type: woman

Occasion: a bar



	1	2	3	4	5	
Not						Perfectly

15.	15. On a scale of 1 to 5, how suitable is the outfit for the occasion giv				
	Mark only one oval.				
	1 2 3 4 5				
	Not				
16.	On a scale of 1 to 5, how fitting is the outfit for the gender/type given?				
	Mark only one oval.				
	1 2 3 4 5				
	Not O Very fitting				
17.	On a scale of 1 to 5, how creative is the outfit? *				
	Mark only one oval.				
	1 2 3 4 5				
	Not O O Very creative				
18.	On a scale of 1 to 5, rate the aesthetic appeal of the outfit. *				
	Mark only one oval.				
	1 2 3 4 5				
	Not				

19.	On a scale of 1 to 5, how well do the clothes and accessories in the outfit match? *				
	Mark only one oval.				
	1 2 3 4 5				
	Not				
20.	Are there any abnormalities or inconsistencies in the image? *				
	Mark only one oval.				
	Yes				
	No Skip to question 22				
Ad	ditional Question				
21.	Despite any abnormalities or inconsistencies, do you believe the image could serve as inspiration for a fashion designer?				
	Mark only one oval.				
	Yes				
	No				
	O I don't know				
Se	cond image				

Style: classic

Gender/Type: a small-framed, delicate woman

Occasion: a bachelorette / bachelor party



22. On a scale of 1 to 5, how well does the outfit align with the style given? *

Mark only one oval.

23.	On a scale of 1 to 5, how suitable is the outfit for the occasion given?					
	Mark only one oval.					
	1 2 3 4 5					
	Not					
24.	On a scale of 1 to 5, how fitting is the outfit for the gender/type given?					
	Mark only one oval.					
	1 2 3 4 5					
	Not O Very fitting					
25.	On a scale of 1 to 5, how creative is the outfit? *					
25.						
	Mark only one oval.					
	1 2 3 4 5					
	Not					
26.	On a scale of 1 to 5, rate the aesthetic appeal of the outfit. *					
	Mark only one oval.					
	1 2 3 4 5					
	Not Highly aesthetically appealing					

27.	On a scale of 1 to 5, how well do the clothes and accessories in the outfit match? *				
	Mark only one oval.				
	1 2 3 4 5				
	Not				
28.	Are there any abnormalities or inconsistencies in the image? *				
	Mark only one oval.				
	Yes				
	No Skip to question 30				
Ad	ditional Questions				
29.	Despite any abnormalities or inconsistencies, do you believe the image could serve as inspiration for a fashion designer?				
	Mark only one oval.				
	Yes				
	No No				
	I don't know				
Th	ird Image				

Style: casual

Gender/Type: a short, curvy man with a muscular build

Occasion: a graduation



	1	2	3	4	5	
Not						Perfectly

31.	On a scale of 1 to 5, how suitable is the outfit for the occasion given?*
	Mark only one oval.
	1 2 3 4 5
	Not
32.	On a scale of 1 to 5, how fitting is the outfit for the gender/type given?
	Mark only one oval.
	1 2 3 4 5
	Not O Very fitting
33.	On a scale of 1 to 5, how creative is the outfit? *
	Mark only one oval.
	1 2 3 4 5
	Not
34.	On a scale of 1 to 5, rate the aesthetic appeal of the outfit. *
5 -т.	Mark only one oval.
	1 2 3 4 5
	Not Highly aesthetically appealing

35.	On a scale of 1 to 5, how well do the clothes and accessories in the outfit match?					
	Mark only one oval.					
	1 2 3 4 5					
	Not Perfectly matching					
36.	Are there any abnormalities or inconsistencies in the image? *					
	Mark only one oval.					
	Yes					
	No Skip to question 38					
Ad	ditional Question					
37.	Despite any abnormalities or inconsistencies, do you believe the image could serve as inspiration for a fashion designer?					
	Mark only one oval.					
	Yes					
	No					
	O I don't know					
Fo	urth Image					

Style: casual

Gender/Type: woman

Occasion: a casual gathering



	1	2	3	4	5	
Not						Perfectly

39.	On a scale of 1 to 5, how suitable is the outfit for the occasion given?
	Mark only one oval.
	1 2 3 4 5
	Not
40.	On a scale of 1 to 5, how fitting is the outfit for the gender/type given?
	Mark only one oval.
	1 2 3 4 5
	Not O Very fitting
41.	On a scale of 1 to 5, how creative is the outfit? *
	Mark only one oval.
	1 2 3 4 5
	Not
42.	On a scale of 1 to 5, rate the aesthetic appeal of the outfit. *
42.	• •
	Mark only one oval.
	1 2 3 4 5
	Not Highly aesthetically appealing

43.	On a scale of 1 to 5, how well do the clothes and accessories in the outfit match? *
	Mark only one oval.
	1 2 3 4 5
	Not
44.	Are there any abnormalities or inconsistencies in the image? *
	Mark only one oval.
	Yes
	No Skip to question 46
Ad	ditional Question
45.	Despite any abnormalities or inconsistencies, do you believe the image could serve as inspiration for a fashion designer?
	Mark only one oval.
	Yes
	No
	I don't know
Fiff	th Image

Style: bohemian

Gender/Type: woman

Occasion: winter vacation



	1	2	3	4	5	
Not						Perfectly

On a						
Mark	only (one o	val.			
	1	2	3	4	5	
Not			\bigcirc		Highly suitable	
On a	scal	e of	1 to	5, ho	ow fitting is the outfit for the gender/type give	n?
Mark	only (one o	val.			
	1	2	3	4	5	
Not					Very fitting	
On a	scal	e of	1 to	5, ho	ow creative is the outfit? *	
On a Mark	only (one o	val.		ow creative is the outfit? *	
Mark			val.		ow creative is the outfit? *	
	only (one o	val.		ow creative is the outfit? *	
Mark Not	1	2	3 <u> </u>	4	ow creative is the outfit? * 5 Very creative	
Mark Not On a	only o	2 e of	3 1 to	4	ow creative is the outfit? *	
Mark Not On a	only o	2 e of	3 1 to	4	ow creative is the outfit? * 5 Very creative	
Mark Not	only o	2 e of	3 1 to	4	ow creative is the outfit? * 5 Very creative	

51.	On a scale of 1 to 5, how well do the clothes and accessories in the outfit match? *
	Mark only one oval.
	1 2 3 4 5
	Not Perfectly matching
52.	Are there any abnormalities or inconsistencies in the image? *
	Mark only one oval.
	Yes
	No Skip to question 54
Ad	ditional Question
53.	Despite any abnormalities or inconsistencies, do you believe the image could serve as inspiration for a fashion designer?
	Mark only one oval.
	Yes
	No
	I don't know
Se	cond Experiment
ger	tructions: You will be presented with a fashion outfit description along with the style, the nder/ type of person wearing it and the occasion and asked to assess its clarity, nerence, and relevance. Please provide your feedback based on each mentioned aspect.

https://docs.google.com/forms/d/1m4ZXQ0BtnGuz0pW6ZVLuIXgmC14OTzpnj-qg3J8_SEQ/edit

Style: bohemian

Gender/ Type: a small-framed, delicate woman

Occasion: a nature retreat

Description: A delicate woman seeking a nature retreat would look stunning in this bohemian-style fashion outfit. The outfit is a perfect blend of earthy tones and soft textures, creating an ethereal and flowing ensemble that is both comfortable and chic.

The top of the outfit is a flowing, sleeveless crop top made of soft, lightweight fabric in a muted shade of green. The crop top features a delicate embroidery detail on the chest, adding a touch of elegance to the casual look.

The bottom of the outfit is a pair of high-waisted, flowy pants in a deep shade of brown. The pants are made of a soft, breathable fabric that allows for easy movement, making them perfect for a nature retreat. The pants also feature a subtle pattern of floral details, adding a touch of whimsy to the outfit.

To complete the look, the woman can wear a pair of delicate sandals in a natural color, such as beige or brown. The sandals feature a subtle pattern of texture, adding a touch of depth to the outfit.

Overall, this bohemian-style fashion outfit is the perfect choice

54. On a scale of 1 to 5, how comprehensible is the description? *

Mark only one oval.

	1	2	3	4	5	
Not (\supset					Very comprehensible

5.	On a scale of 1 to 5, how coherent is the description? *
	Mark only one oval.
	1 2 3 4 5
	Not Very coherent
6.	On a scale of 1 to 5, how suitable is the outfit described for the occasion? *
	Mark only one oval.
	1 2 3 4 5
	Not Highly suitable
7.	On a scale of 1 to 5, how suitable is the outfit described for the gender/type?
	Mark only one oval.
	1 2 3 4 5
	Not Highly suitable
8.	On a scale of 1 to 5, how well does the outfit described align with the style? *
	Mark only one oval.
	1 2 3 4 5
	Not Perfectly appropriate

59.	On a scale of 1 to 5, how suitable are the colors used for the occasion? *							
	Mark only one oval.							
	1 2 3 4 5							
	Not O O Highly suitable							
60.	On a scale of 1 to 5, how suitable are the colors used for the gender/type?							
	Mark only one oval.							
	1 2 3 4 5							
	Not O O Highly suitable							
61.	On a scale of 1 to 5, how suitable are the colors used for the style? *							
	Mark only one oval.							
	1 2 3 4 5							
	Not Highly suitable							
62.	On a scale of 1 to 5, how suitable are the textures used for the occasion? *							
	Mark only one oval.							
	1 2 3 4 5							
	Not O O Highly suitable							

63. On a scale of 1 to 5, how suitable are the textures used for the gender/type? *

Mark only one oval.



64. On a scale of 1 to 5, how suitable are the textures used for the style? *

Mark only one oval.

	1	2	3	4	5	
Not						Highly suitable

Second Description

Style: sporty

Gender/ Type: woman
Occasion: winter vacation

Description: A winter vacation calls for warm and stylish outfits that can keep you comfortable while looking fabulous. This sporty style outfit is perfect for a woman who wants to make a statement while enjoying her winter getaway.

The outfit features a vibrant neon green sweater, which is both warm and eye-catching. The sweater is made of a soft and cozy cashmere blend, which will keep you warm and comfortable throughout your vacation. The sweater is paired with a pair of high-waisted black leggings, which add a touch of sophistication to the outfit.

The leggings are made of a stretchy and breathable fabric, which allows for easy movement and flexibility. The leggings also feature a subtle texture, which adds an extra layer of warmth and comfort.

To complete the outfit, you can add a pair of black ankle boots with a chunky heel. The boots are both stylish and practical, and will keep your feet warm and dry throughout your winter vacation.

Overall, this sporty style outfit is perfect for a woman who wants to make a statement while enjoying her winter vacation.

4 1 IVI	i asilion ilitages Generation i art i#2
65.	On a scale of 1 to 5, how comprehensible is the description? *
	Mark only one oval.
	1 2 3 4 5
	Not
66.	On a scale of 1 to 5, how coherent is the description? *
	Mark only one oval.
	1 2 3 4 5
	Not
67.	On a scale of 1 to 5, how suitable is the outfit described for the occasion? *
	Mark only one oval.
	1 2 3 4 5
	Not
68.	On a scale of 1 to 5, how suitable is the outfit described for the gender/type?
	Mark only one oval.
	1 2 3 4 5
	Not Highly suitable

	, as not mages some and ma
69.	On a scale of 1 to 5, how well does the outfit described align with the style?
	Mark only one oval.
	1 2 3 4 5
	Not Perfectly appropriate
70.	On a scale of 1 to 5, how suitable are the colors used for the occasion? *
	Mark only one oval.
	1 2 3 4 5
	Not
71.	On a scale of 1 to 5, how suitable are the colors used for the style? *
	Mark only one oval.
	1 2 3 4 5
	Not
72.	On a scale of 1 to 5, how suitable are the colors used for the gender/type? *
	Mark only one oval.
	1 2 3 4 5
	Not

73. On a scale of 1 to 5, how suitable are the textures used for the gender/type? *

Mark only one oval.

	1	2	3	4	5	
Not						Highly suitable

74. On a scale of 1 to 5, how suitable are the textures used for the occasion? *

Mark only one oval.



75. On a scale of 1 to 5, how suitable are the textures used for the style? *

Mark only one oval.



Third Description

Style: classic

Gender/ Type: a small-framed, delicate woman

Occasion:a beach

Description: 1. A silk blouse in a soft shade of pink with a delicate lace collar and cuffs. 2. A pair of high-waisted, white silk trousers with a subtle sheen. 3. A light blue silk skirt with a floral lace pattern that falls just above the knee. 4. A pair of white silk sandals with a delicate lace detail on the straps. 5. A light pink silk scarf with a floral lace pattern that can be worn around the neck or tied in a bow in the hair. 6. A pair of white silk sunglasses with a delicate lace detail on the temples. 7. A light blue silk beach cover-up with a floral lace pattern that can be worn over the swimsuit. 8. A pair of white silk swimwear with a delicate lace detail on the straps. 9. A pair of white silk earrings with a delicate lace detail on the ends. 10. A pair of white silk bracelets with a delicate lace detail on the straps.

76.	On a scale of 1 to 5, how comprehensible is the description? *
	Mark only one oval.
	1 2 3 4 5
	Not
77.	On a scale of 1 to 5, how coherent is the description? *
	Mark only one oval.
	1 2 3 4 5
	Not O O Very coherent
78.	On a scale of 1 to 5, how suitable is the outfit described for the occasion? * Mark only one oval.
	1 2 3 4 5
	Not
79.	On a scale of 1 to 5, how suitable is the outfit described for the gender/type? Mark only one oval.
	1 2 3 4 5
	Not O O Highly suitable

T4 PIVI	Fashion images Generation Part 1#2
80.	On a scale of 1 to 5, how well does the outfit described align with the style?
	Mark only one oval.
	1 2 3 4 5
	Not Perfectly appropriate
81.	On a scale of 1 to 5, how suitable are the colors used for the occasion? *
	Mark only one oval.
	1 2 3 4 5
	Not
82.	On a scale of 1 to 5, how suitable are the colors used for the gender/type? *
	Mark only one oval.
	1 2 3 4 5
	Not
83.	On a scale of 1 to 5, how suitable are the colors used for the style? *
	Mark only one oval.
	1 2 3 4 5
	Not

84. On a scale of 1 to 5, how suitable are the textures used for the style? *

Mark only one oval.

	1	2	3	4	5	
Not						Highly suitable

85. On a scale of 1 to 5, how suitable are the textures used for the gender/type? *

Mark only one oval.



86. On a scale of 1 to 5, how suitable are the textures used for the occasion? *

Mark only one oval.



Fourth description

Style: casual

Gender/ Type: a short, curvy man with a muscular build

Occasion: a birthday party

Description: The fashion-conscious man in the photo is wearing a casual outfit that is perfect for a birthday celebration. The man is wearing a white t-shirt, a pair of dark-wash jeans, and a pair of black sneakers. The t-shirt is tucked in, revealing a bit of the man's muscular build. The jeans are slightly loose, giving the outfit a

relaxed and comfortable vibe. The sneakers are classic black, with a modern twist, featuring a white sole. The

man is accessorized with a black leather watch and a silver necklace. The outfit is completed with a black

leather jacket, adding a layer of sophistication to the casual look.

14 PIVI	Fashion images Generation Part 1#2
87.	On a scale of 1 to 5, how comprehensible is the description? *
	Mark only one oval.
	1 2 3 4 5
	Not
88.	On a scale of 1 to 5, how coherent is the description? *
	Mark only one oval.
	1 2 3 4 5
	Not O Very coherent
89.	On a scale of 1 to 5, how suitable is the outfit described for the occasion? *
	Mark only one oval.
	1 2 3 4 5
	Not
90.	On a scale of 1 to 5, how suitable is the outfit described for the gender/type?
	Mark only one oval.
	1 2 3 4 5
	Not Highly suitable

	<u> </u>
91.	On a scale of 1 to 5, how well does the outfit described align with the style?
	Mark only one oval.
	1 2 3 4 5
	Not Perfectly appropriate
92.	On a scale of 1 to 5, how suitable are the colors used for the occasion? *
	Mark only one oval.
	1 2 3 4 5
	Not O O Highly suitable
93.	On a scale of 1 to 5, how suitable are the colors used for the gender/type?*
	Mark only one oval.
	1 2 3 4 5
	Not O O Highly suitable
94.	On a scale of 1 to 5, how suitable are the colors used for the style? *
	Mark only one oval.
	1 2 3 4 5
	Not

95. On a scale of 1 to 5, how suitable are the textures used for the style? *

Mark only one oval.



96. On a scale of 1 to 5, how suitable are the textures used for the gender/type? *

Mark only one oval.



97. On a scale of 1 to 5, how suitable are the textures used for the occasion? *

Mark only one oval.



Fifth Description

Style: classic

Gender/ Type: a small-framed, delicate woman

Occasion: a music festival

Description: The delicate woman in the photo is wearing a classic, feminine outfit that is perfect for a day at a music festival. The ensemble consists of a white blouse with a Peter Pan collar, paired with a pleated skirt in a

pastel hue. The woman's hair is styled in a loose, retro updo that frames her face. She accessorizes with a

delicate gold necklace and a matching bracelet. The outfit is completed with a pair of vintagestyle

sunglasses and a small leather handbag. The overall look is one of timeless elegance and femininity.

98.	On a scale of 1 to 5, how comprehensible is the description? *
	Mark only one oval.
	1 2 3 4 5
	Not O O Very comprehensible
99.	On a scale of 1 to 5, how coherent is the description? *
	Mark only one oval.
	1 2 3 4 5
	Not O O Very coherent
100.	On a scale of 1 to 5, how suitable is the outfit described for the occasion? *
	Mark only one oval.
	1 2 3 4 5
	Not
101.	On a scale of 1 to 5, how suitable is the outfit described for the gender/type?
	Mark only one oval.
	1 2 3 4 5
	Not

102.	On a scale of 1 to 5, how well does the outfit described align with the style? Mark only one oval.
	1 2 3 4 5
	Not Perfectly appropriate
103.	On a scale of 1 to 5, how suitable are the colors used for the occasion? *
	Mark only one oval.
	1 2 3 4 5
	Not
104.	On a scale of 1 to 5, how suitable are the colors used for the style? *
	Mark only one oval.
	1 2 3 4 5
	Not
105.	On a scale of 1 to 5, how suitable are the colors used for the gender/type?
	Mark only one oval.
	1 2 3 4 5
	Not

106.	On a scale of 1 to 5, how suitable are the textures used for the gender/type?
	Mark only one oval.
	1 2 3 4 5
	Not
107.	On a scale of 1 to 5, how suitable are the textures used for the style? *
	Mark only one oval.
	1 2 3 4 5
	Not
108.	On a scale of 1 to 5, how suitable are the textures used for the occasion? *
	Mark only one oval.
	1 2 3 4 5
	Not Highly suitable

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