



K. D. K. COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION TECHNOLOGY

VII TH SEM-2024-25

PROJECT



GUIDE: PROF. Y.D. CHOUDHARI

GROUP MEMBER:

- 1)JYOTI RANGU
- 2)SAKSHI MALVE
- 3)RITIK URKUDE
- 4)VEDANT PATEL



Problem Statement

Which hairstyle suits
my face shape?

What type of outfit
fits my body shape?

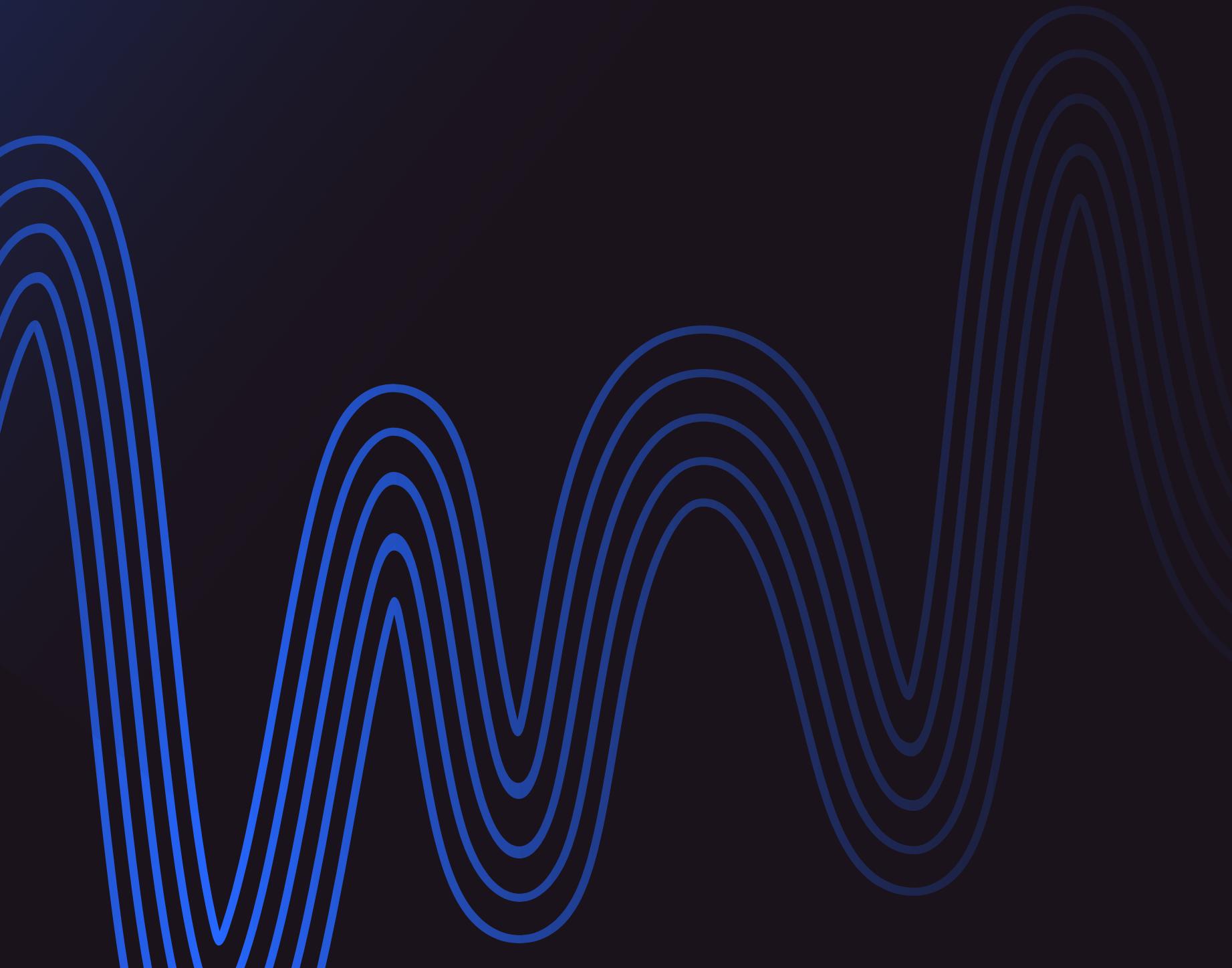
Which makeup style
complements my
outfit?

Which color
complements my skin
tone?

What should I wear
for this occasion?



CONTENT :

- 
1. INTRODUCTION
 2. LITERATURE REVIEW
 3. METHODOLOGY
 4. RESULT AND DISCUSSION
 5. REFERENCE

Introduction & Objective



PERSONALIZED RECOMMENDATION

Provide personalized fashion recommendations based on individual preferences and characteristics.

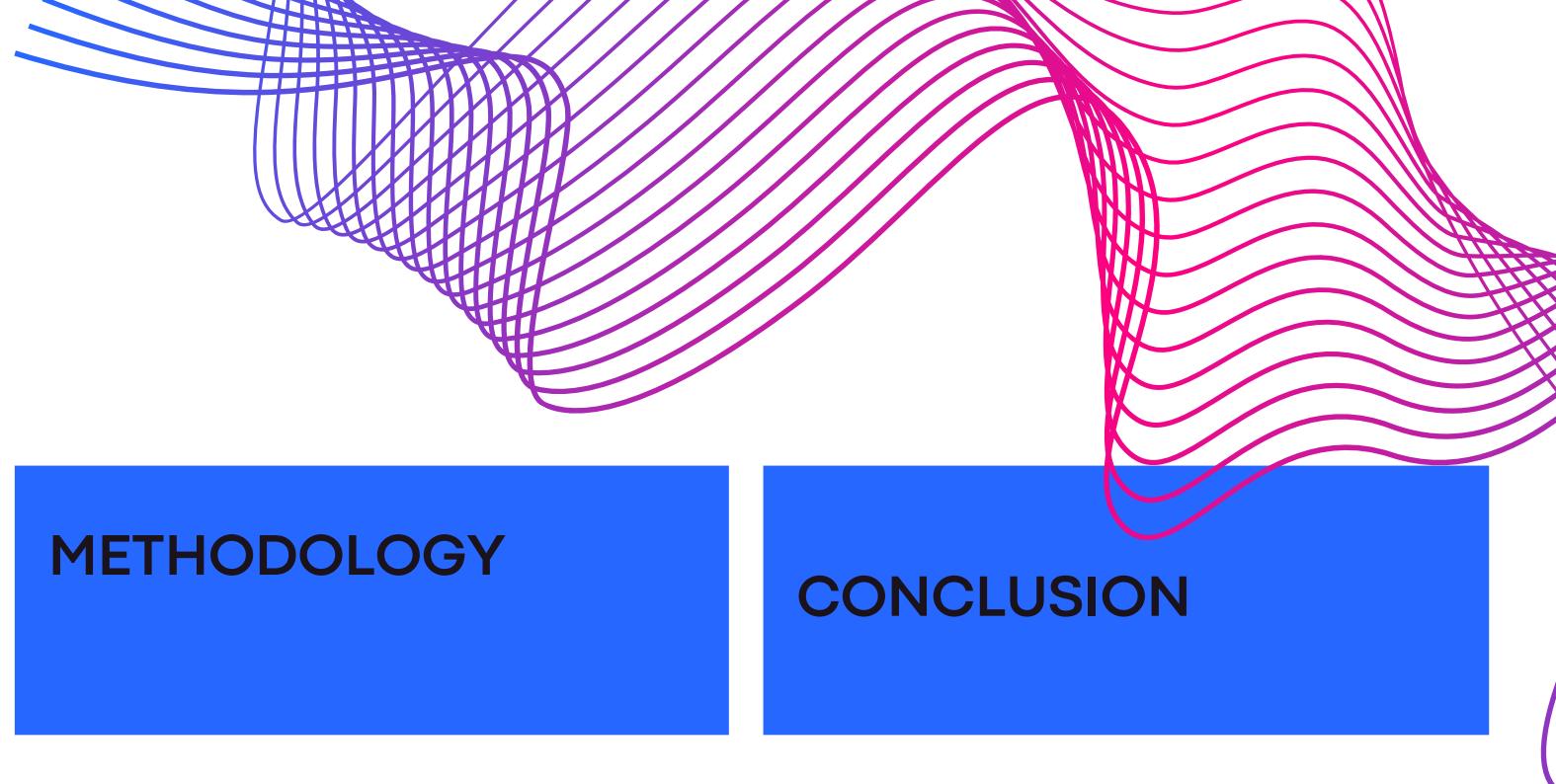
VIRTUAL TRY-ON EXPERIENCES

Enhance user experience by offering virtual try-on experiences for hairstyles, outfits, and colors.

SIMPLIFIED STYLE EXPLORATION

Simplify the process of exploring and selecting new fashion styles.

LITERATURE REVIEW



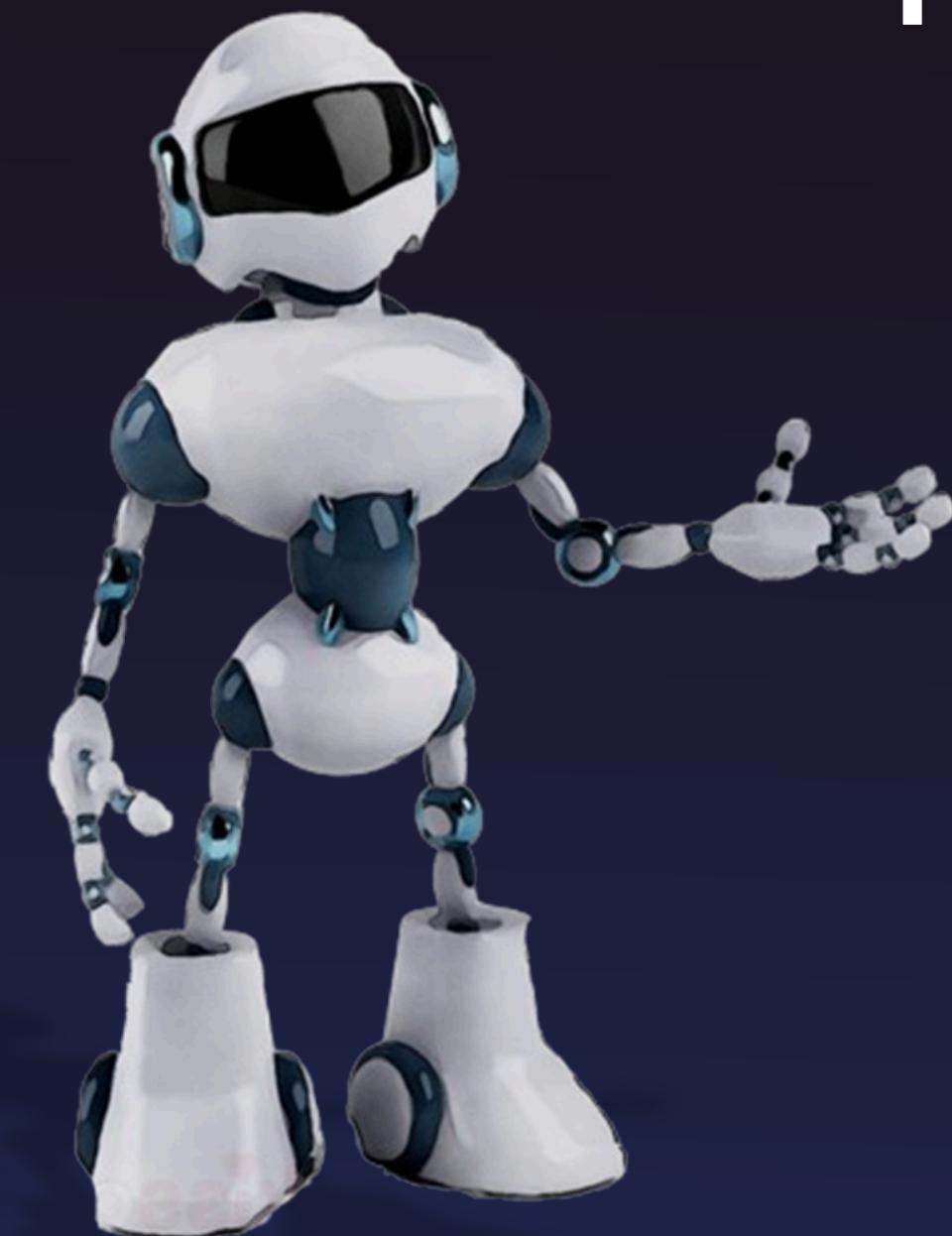
PAPER TITLE	AUTHOR	PUBLISHED DATES	METHODOLOGY	CONCLUSION
PIFuHD:2D to 3D	Shunsuke Saito, Tomas Simon, Jason Saragih, Hanbyul Joo	April 2, 2020	Multi-level framework for 1k resolution 3D human reconstruction using a coarse-to-fine approach.	Outperforms state-of-the-art techniques by leveraging 1k-resolution input images.
Fashion Outfit Generation	Elaine M. Bettaney, Stephen R. Hardwick, Odysseas Zisimopoulos, Benjamin Paul Chamberlain	March 2019	Multi-layer neural network using visual and textual features to generate fashion outfits.	Model-generated outfits were preferred 21% more for womenswear and 34% more for menswear over the baseline.
ML-Based Outfit Suggestion	Chandrakant D. Kokane, Aadit Rode, Rushikesh Sangale, Jaysri Rathod, Sonu Khapekar, Vilas V. Deotare	October 30, 2023	Utilizes deep learning, computer vision, and NLP to tailor outfit recommendations based on body type and shape	Enhances user confidence by providing personalized outfit suggestions, simplifying wardrobe curation.

METHODOLOGY

DEVELOPMENT OF APPLICATION



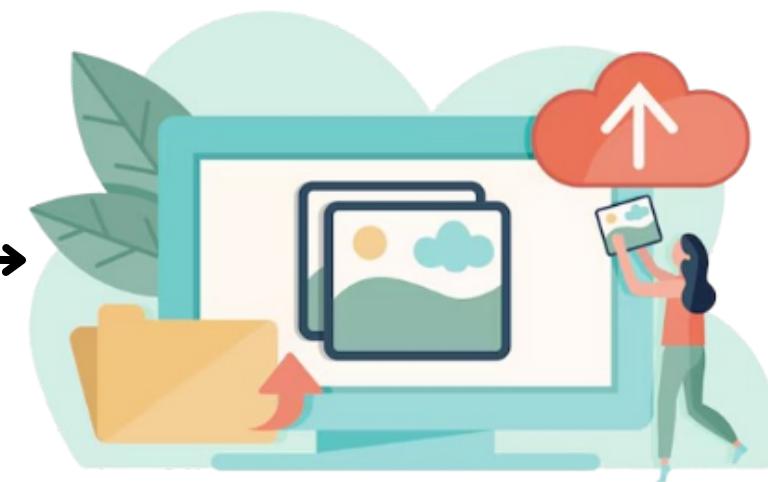
INTEGRATION OF ML MODEL



PIFUHD 2D TO 3D

SKIN TONE
DETECTION

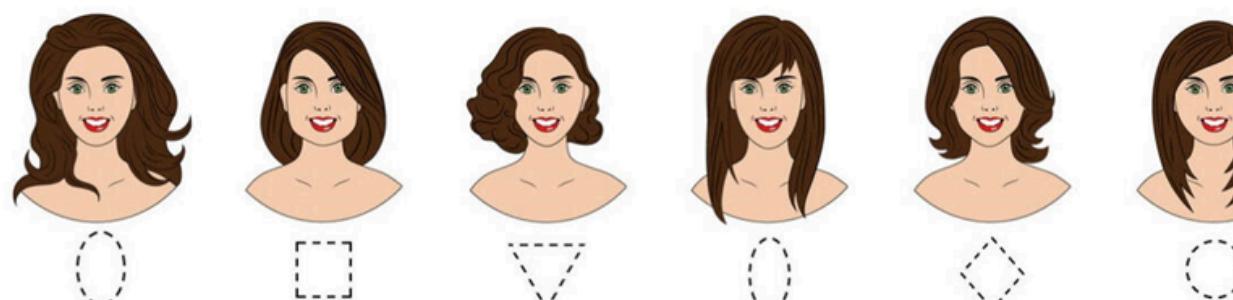
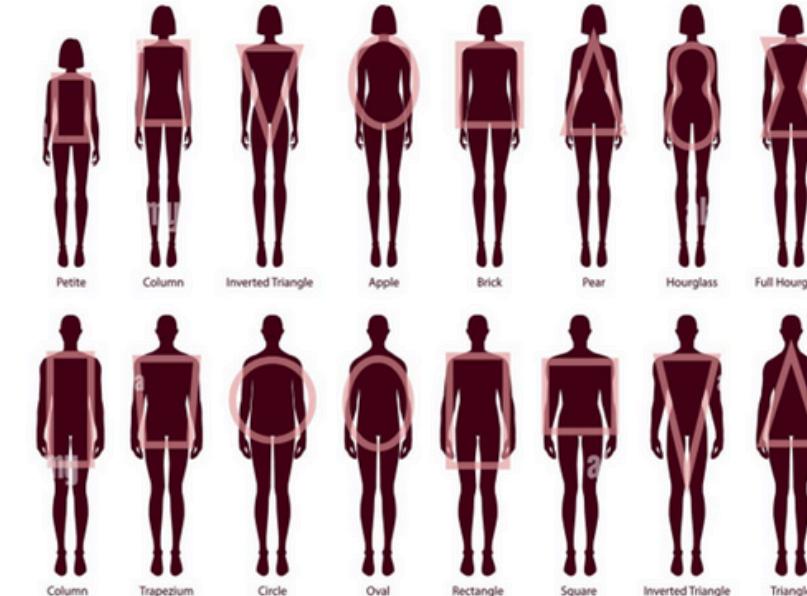
FASHION
RECOMMENDED



Upload Image



3D Model of Complete
Makeover will be displayed.
(Based on Selected Choices)

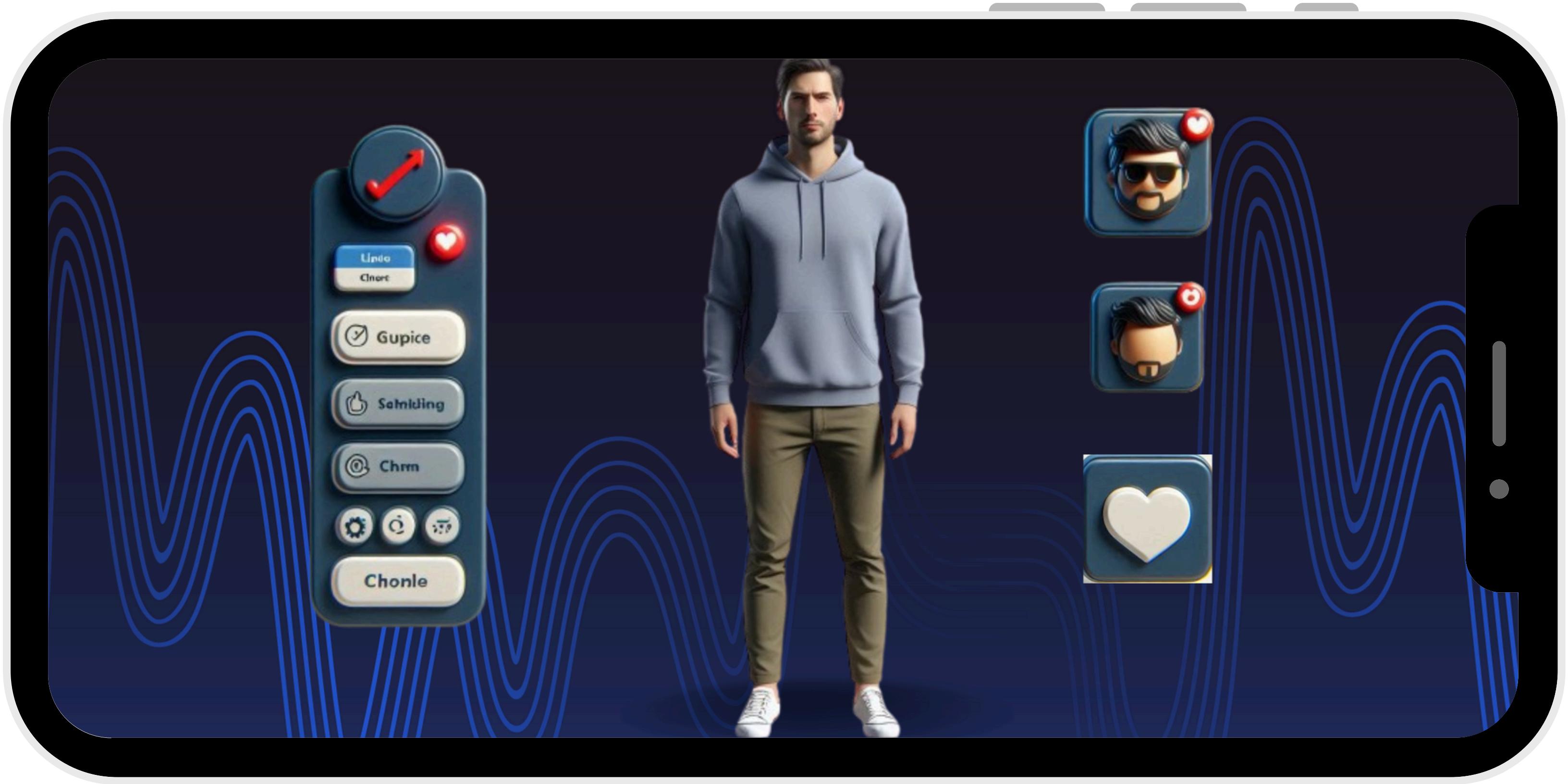


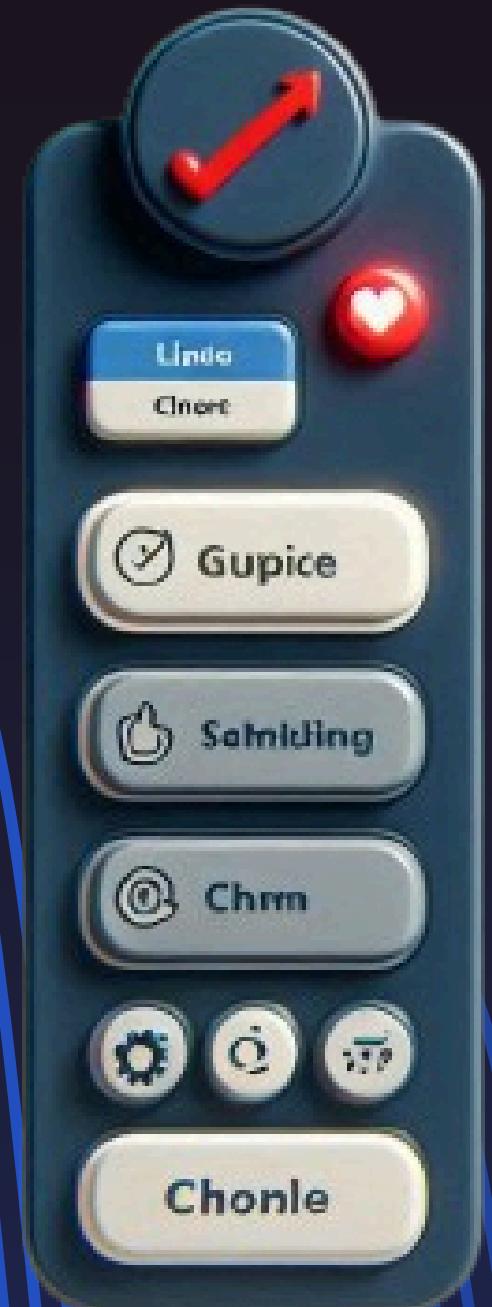
Based on shape of Face Hair styles will be recommended



Choose your dressing style:
1) Formals 2) Traditional 3) Casuals

Result & Conclusion





Conclusion



Innovative Personalization:

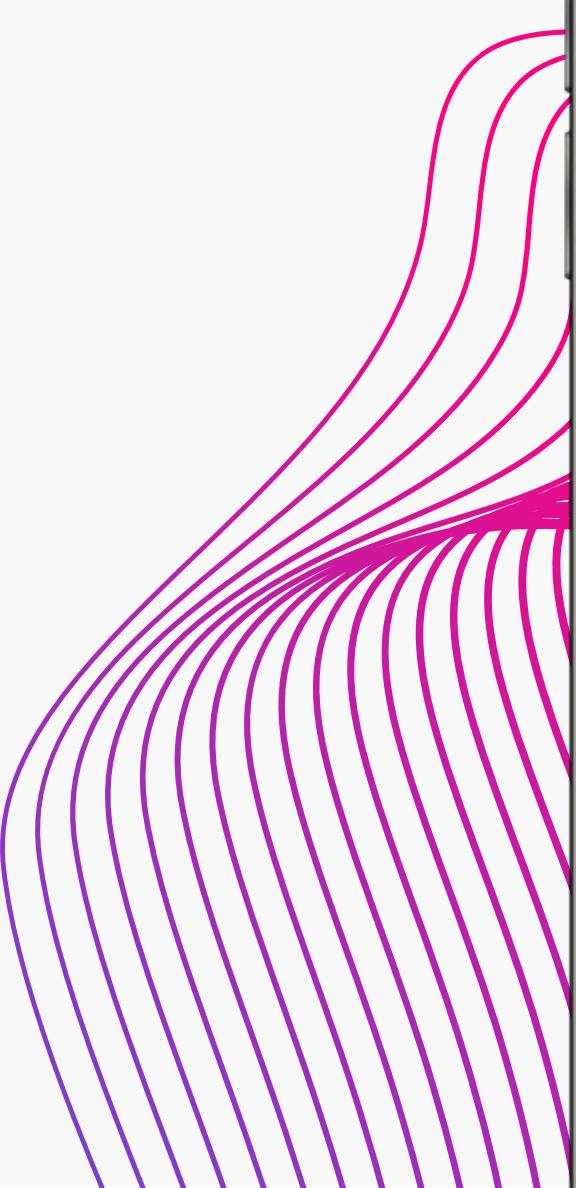
The app offers a unique, personalized fashion experience

Cutting-Edge Technology

Leveraging advanced machine learning and 3D modeling techniques

Market Potential

Addressing the demand for customized fashion solutions



REFERENCE

- [1] Shunsuke Saito, Tomas Simon, Jason Saragih, "PIFuHD: Multi-Level Pixel-Aligned Implicit Function for High-Resolution 3D Human Digitization" IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) in 2020.
- [2] Elaine M. Bettaney and Stephen R. Hardwick, "Fashion Outfit Generation for E-commerce", Preprint, March 2019, 2019. ACM ISBN.
- [3] Chandrakant D. Kokane , Aadit Rode "ML-Based Outfit Suggestion System " at International Journal of Scientific Research in Computer Science, Engineering and Information Technology ISSN : 2456 - 3307