



FINAL YEAR PROJECT REPORT

VOGUEAI: THE NEXT-GEN VIRTUAL STYLIST

**In fulfillment of the requirement
For degree of
BS (COMPUTER SCIENCES)**

By

**SHIEKH YASIR
ADEEL NAJAM
MUHAMMAD USMAN**

**78981 (BSCS)
79240 (BSCS)
78997 (BSCS)**

SUPERVISED

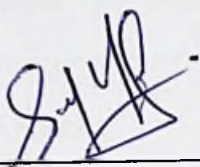
**BY
SAGHIR AHMED**

BAHRIA UNIVERSITY (KARACHI CAMPUS)

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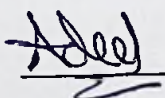
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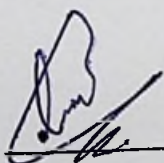
Name : SHIEKH YASIR

Reg No. : 78981

Signature : _____

Name : ADEEL NAJAM

Reg No. : 79240

Signature : _____

Name : MUHAMMAD USMAN

Reg No. : 78997

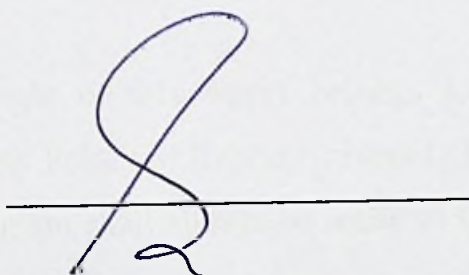
Date : 05/06/2025

APPROVAL FOR SUBMISSION

We certify that this project report entitled **“VOGUEAI: THE NEXT-GEN VIRTUAL FASHION STYLIST”** was prepared by **SHIEKH YASIR, ADEEL NAJAM, MUHAMMAD USMAN** has met the required standard for submission in partial fulfilment of the requirements for the award of Bachelor of Science in Computer Science at Bahria University, Karachi.

Approved by,

Signature :



Supervisor :

SAGHIR AHMED

Date :

6th May 25

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Specially dedicated to

My beloved grandmother, mother and father

Sheikh Yasir

My beloved grandmother, mother and father

Adeel Najam

My beloved grandmother, mother and father

Muhammad Usman

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We would like to thank everyone who had contributed to the successful completion of this project. We would like to express my gratitude to my project supervisor, **SAGHIR AHMED** for his invaluable advice, guidance and his enormous patience throughout the development of the research.

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VOGUEAI: THE NEXT-GEN VIRTUAL FASHION STYLIST

ABSTRACT

The research aims to develop **VogueAI** as a web-based smart virtual assistant that provides users with virtual clothing trials before they make purchases. People find online shopping difficult because they are unsure if products will match their body and fit properly. **VogueAI** addresses this problem through a feature that enables users to submit their personal images that generate how various outfits appear on their physique. Via computer vision techniques the system applies digital outfits to user-supplied images for results which closely represent actual garments.

Users get outfit recommendations through an integrated chatbot feature of the platform. From your event type to your current mood, you can seek advice through the system by making a request. Users can find their fashion inspiration through authentic clothing brands Rastah, Nishat, and ELO which keep their fashion collection contemporary and relevant to buyers.

The system implements web technologies to create its platform. The platform optimizes itself to operate efficiently on mobile phones and desktop computers. Users have access to free basic features but premium features including high resolution try-ons and personalized outfit combinations require an upgrade to the premium version.

We intend to enhance our virtual fitting tool by developing improved body-type recognition algorithms while creating more realistic fabric textures for users in future updates. Our future development includes viewing clothing from multiple angles and developing advanced styling features and eco-awareness labels to show environmental footprint of garments. We plan to reach additional regions globally while adding multi-language capabilities to our platform and build social sharing tools which would allow users to receive friend recommendations before making purchases.

VogueAI brings together fashion elements with technological capabilities to deliver an improved custom online shopping experience.

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