**MANGALORE INSTITUTE OF TECHNOLOGY & ENGINEERING**

(A Unit of Rajalaxmi Education Trust®, Mangalore)

Autonomous Institute affiliated to VTU, Belagavi, Approved by AICTE, New Delhi

Accredited by NAAC with A+ Grade & ISO 9001:2015 Certified Institution

# GLOW CARE

# (SKINCARE RECOMONDADTION SYSTEM)

### MINI-PROJECT

**(24MCSE526)**

**REPORT**

***Submitted by***

**Sarika**

**4MT24MC088**

***In partial fulfillment for the award of the degree of***

### MASTER OF COMPUTER APPLICATIONS

**2024-25**

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**DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS**

CERTIFICATE

This is to certify that **Sarika,** bearing **4MT24MC088,** has successfully completed his/her second semester Mini-Project entitled **GLOWCARE (Skincare Recommendation System)** as a partial fulfillment of the requirements for the award of **MASTER OF COMPUTER APPLICATIONS** degree, during the Academic Year **2024-25** under my supervision. This report has not been submitted to any other Organization/University for any award of degree.

**Signature of the Guide Head of the Department**

### External Viva-Voce

Internal Examiner External Examiner

Name : Name :

Signature : Signature :

# DECLARATION

I, **Sarika** student of II Semester MCA, bearing USN **4MT24MC088,** hereby declare that the project work entitled **GLOWCARE (Skincare Recommendation System)** has been carried out by me under the supervision of an Internal Guide **Ms Sadhana K, Assistant Professor** and submitted in partial fulfillment of the requirements for the award of the Degree of **Master of Computer of Applications**, Mangalore Institute of Technology & Engineering, an Autonomous Institution, Affiliated to Visvesvaraya Technological University during the academic year **2024-25**. This report has not been submitted to any other Organization/University for any award of degree.

Name :

Signature :

Date :

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# ABSTRACT

The project GLOWCARE is a web-based machine learning application designed to provide personalized skincare recommendations. The system predicts both morning and evening skincare routines by analyzing user inputs through a structured questionnaire. The questionnaire collects details such as skin type, water intake, diet, sun exposure, use of SPF, natural remedies, cleansing frequency, sleep patterns, stress levels, and other lifestyle factors.

The project is built to cater to two categories of users: new users, who provide fresh inputs through the questionnaire, and existing users, whose past data is utilized to refine predictions. A Random Forest algorithm is employed to analyze the dataset containing 1,200 records with 22 features. These features capture a wide range of skin and lifestyle attributes, while the output labels define suitable morning and evening skincare routines.

The system also incorporates a user-friendly interface with login and registration functionalities, ensuring secure access for individuals. Once logged in, the user is guided through the questionnaire, after which the machine learning model predicts a customized skincare routine.

This project demonstrates the integration of machine learning with web technology to solve real-world problems in the domain of skincare management. The use of predictive modeling not only helps users adopt healthier skincare practices but also emphasizes the role of technology in promoting wellness and self-care