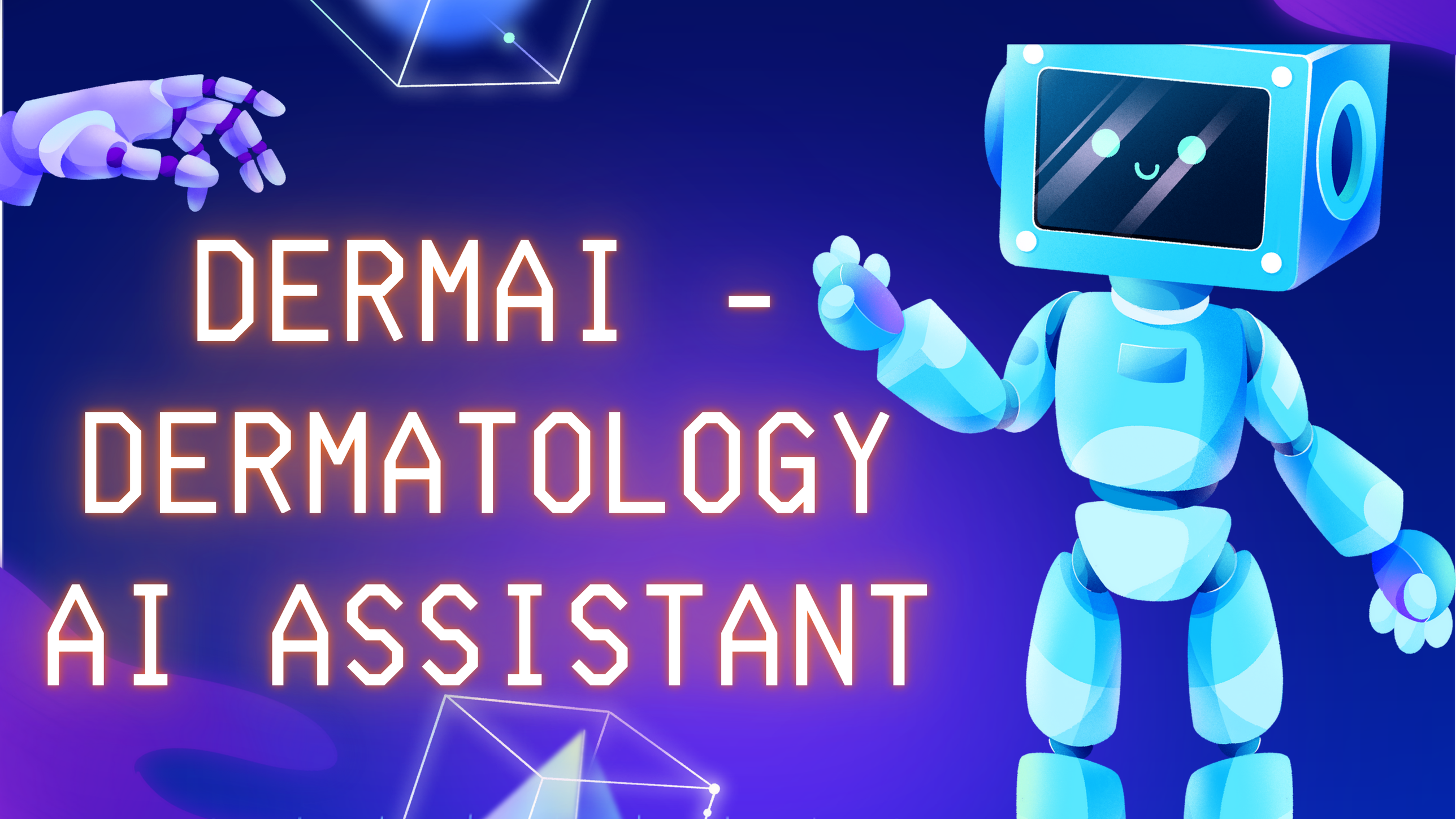
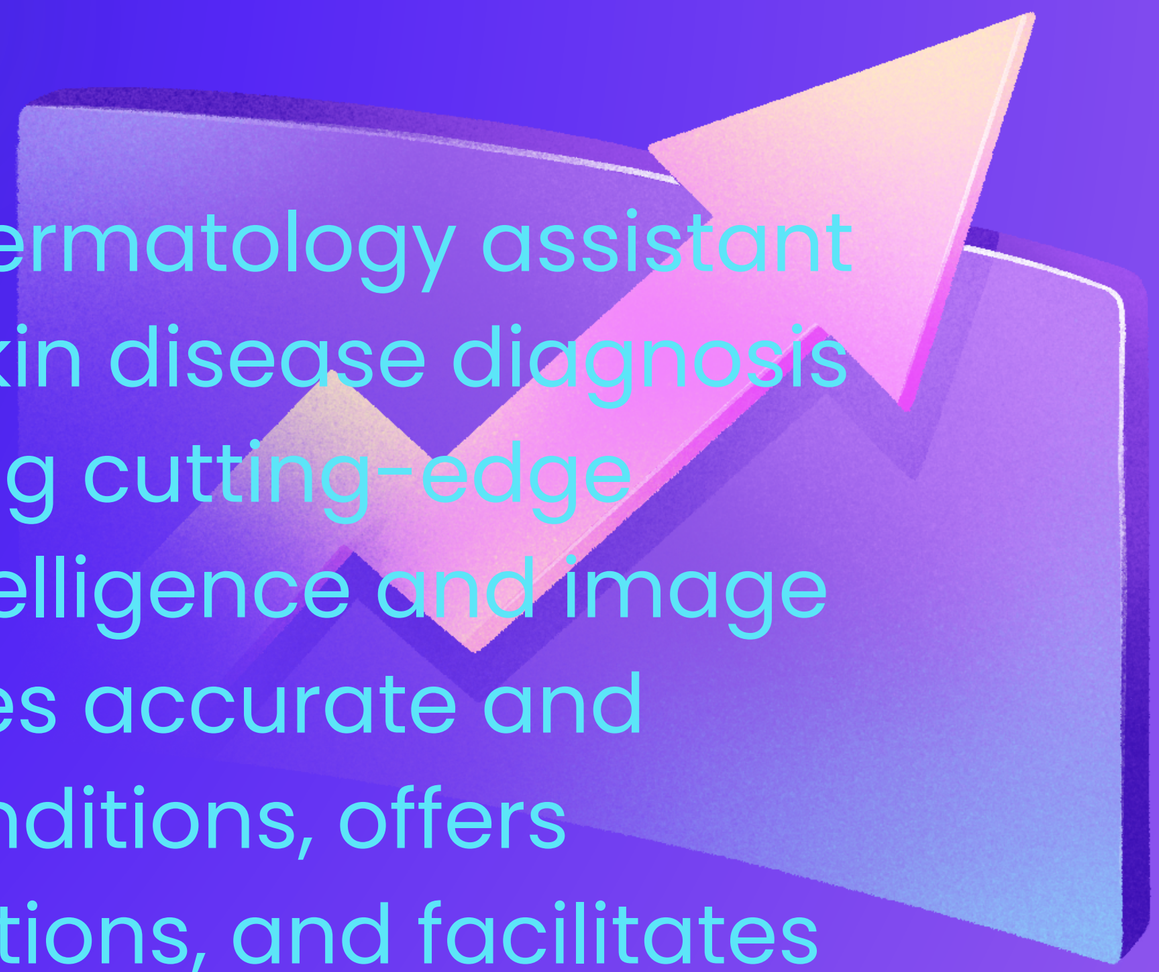
DERMAI - DERMATOLOGY AI ASSISTANT



INTRODUCTION



DermAI is an AI-powered dermatology assistant designed to revolutionize skin disease diagnosis and patient care. Leveraging cutting-edge technologies in artificial intelligence and image recognition, DermAI provides accurate and efficient analysis of skin conditions, offers personalized recommendations, and facilitates seamless communication between patients and dermatologists.

PROBLEM STATEMENT

01

Limited Access to Dermatologists: Many individuals lack access to dermatologists due to geographical constraints, long waiting times, or financial limitations.

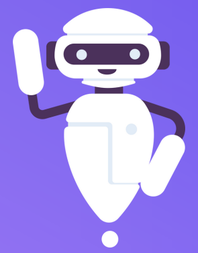
02

Diagnostic Accuracy: Skin disease diagnosis often relies on visual examination, which may be subjective and prone to human error.

03

Patient Education and Engagement: Patients may have limited understanding of skin conditions, treatment options, and preventive measures.

PROJECT OBJECTIVES

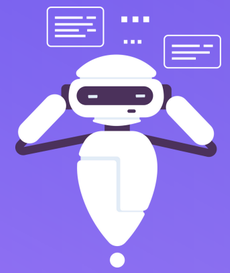


ACCURATE DIAGNOSIS:

Develop AI algorithms for precise identification and diagnosis of various skin conditions, aiding dermatologists in treatment planning and patient care.

IMPROVED ACCESS TO CARE:

Enhance accessibility to dermatological services through remote consultations and appointment scheduling, addressing geographical barriers and improving patient convenience.



EFFICIENT WORKFLOW:

Streamline administrative processes, such as appointment booking and data management, to optimize operational efficiency and enhance the patient experience.

PROJECT SCOPE

IMAGE RECOGNITION AND DIAGNOSIS:

DermAI utilizes advanced image recognition algorithms to analyze skin images and identify various skin conditions, including rashes, lesions, and abnormalities.

CONTINUOUS IMPROVEMENT AND INNOVATION:

DermAI adopts an agile development approach, incorporating user feedback, stakeholder input, and technological advancements to enhance functionality, usability, and performance.

APPOINTMENT SCHEDULING AND REMOTE CONSULTATIONS:

DermAI offers a user-friendly interface for patients to schedule appointments with dermatologists.

DIAGNOSTIC REPORTING AND TREATMENT RECOMMENDATIONS:

DermAI generates detailed diagnostic reports based on the analysis of skin images, highlighting key findings, differential diagnoses, and recommended treatment options.

TECHNICAL ARCHITECTURE

1. **Machine Learning and AI:** DermAI employs advanced machine learning models for image recognition, natural language processing, and decision support.
2. **Image Processing**: Image processing libraries such as PIL (Python Imaging Library) are used for preprocessing and analyzing skin images.
3. **Web Development:** Streamlit is utilized for building the user interface, allowing for seamless interaction and visualization of analysis results.
4. **Database Management:** MongoDB is employed for storing appointment data, facilitating data retrieval and manageme.

THANK YOU!