SheCare Hub- AI for Breast Cancer

Team Enigma

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Problem Statement

The problem statement focuses on development of a system to enhance the healthcare awareness and accessibility in remote areas since people in remote areas , particularly villages face a significant healthcare disparity due to a lack of awareness , lack of infrastructural support and limited accessibility to essential services. Residents often face challenge in understanding preventive measures and managing health conditions and tackling this problem at the earliest is the need of the society

Solution

To tackle the problem , we have focused to develop a website application for diagnosis of breast cancer. The framework comprises of pre-diagnosis, diagnosis and confirmation. These modules use AI models for automated diagnosis based on patient information and medical images. Using the website, health assistants can perform diagnosis in a quick and accurate fashion.

Tech Stacks and Frameworks Used

Tech Stacks:

Frontend - React JS

Backend - Flask

Prototyping - Streamlit

Framework -

Deep learning framework

Libraries used - tensorflow , lime , shap

Why you chose this problem statement?

Our thought to work on this topic instilled due to a collaborative thinking of the importance of health in a person's life.Recently , a survey even suggested that Breast cancer is the leading most commonly diagnosed cancer with a total of 2.3 million new cases (11.7%) of breast cancer. Diagnosis plays an essential role in cancer, since early diagnosis of the condition can help in better planning for treatment and prevent further complications thus we thought of developing the app termed SheCare to spread awareness regarding the spread of breast cancer.