

Skin Analysis

Team Members:

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16BCE0789

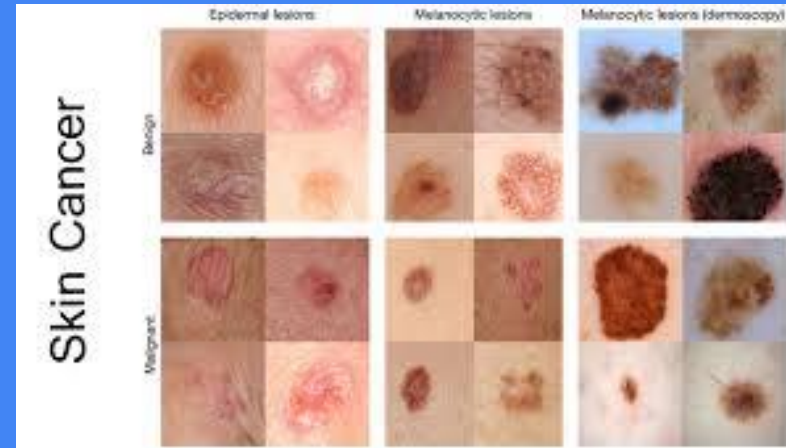
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Guide: Prof. Abdul Gaffar



A laptop screen is shown in the background, displaying a line graph with a blue line and a pie chart. The screen is partially obscured by a dark overlay. The text is overlaid on this dark area.

Mission statement:

To help people at large to deal with skin cancer related problem. This will make an interactive environment between doctor and patient related to this problem.

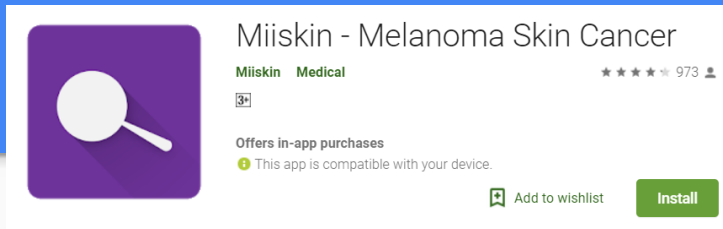
The problem

The target audience is focused on Indian masses who get deprived of medical facilities especially skin cancer which is mostly neglected.

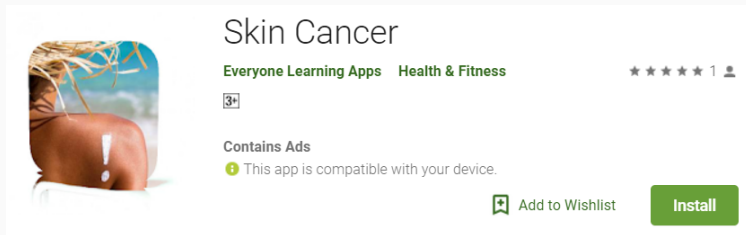
We are making a skin cancer classifier which classifies whether the user has cancer and if the user has our classifier will classify it is. The user can ask for online assistance to a doctor.



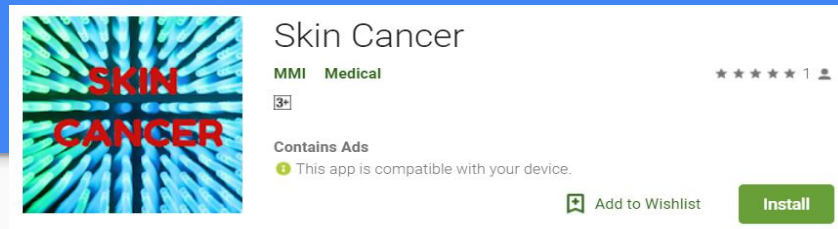
Problem of other Apps Present Online



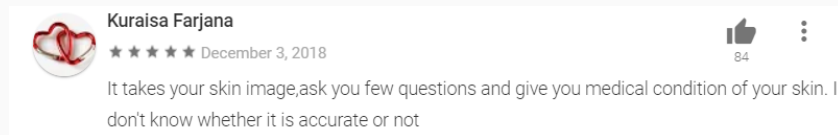
- Rating is good but detection is bad.
- Moreover this is an analysis app and not related to skin cancer detection if we go farther inside inspection.



- US based and has no users at all.



- This App only gives news and has nothing to do with treatment.
- Highly rated but not in use.

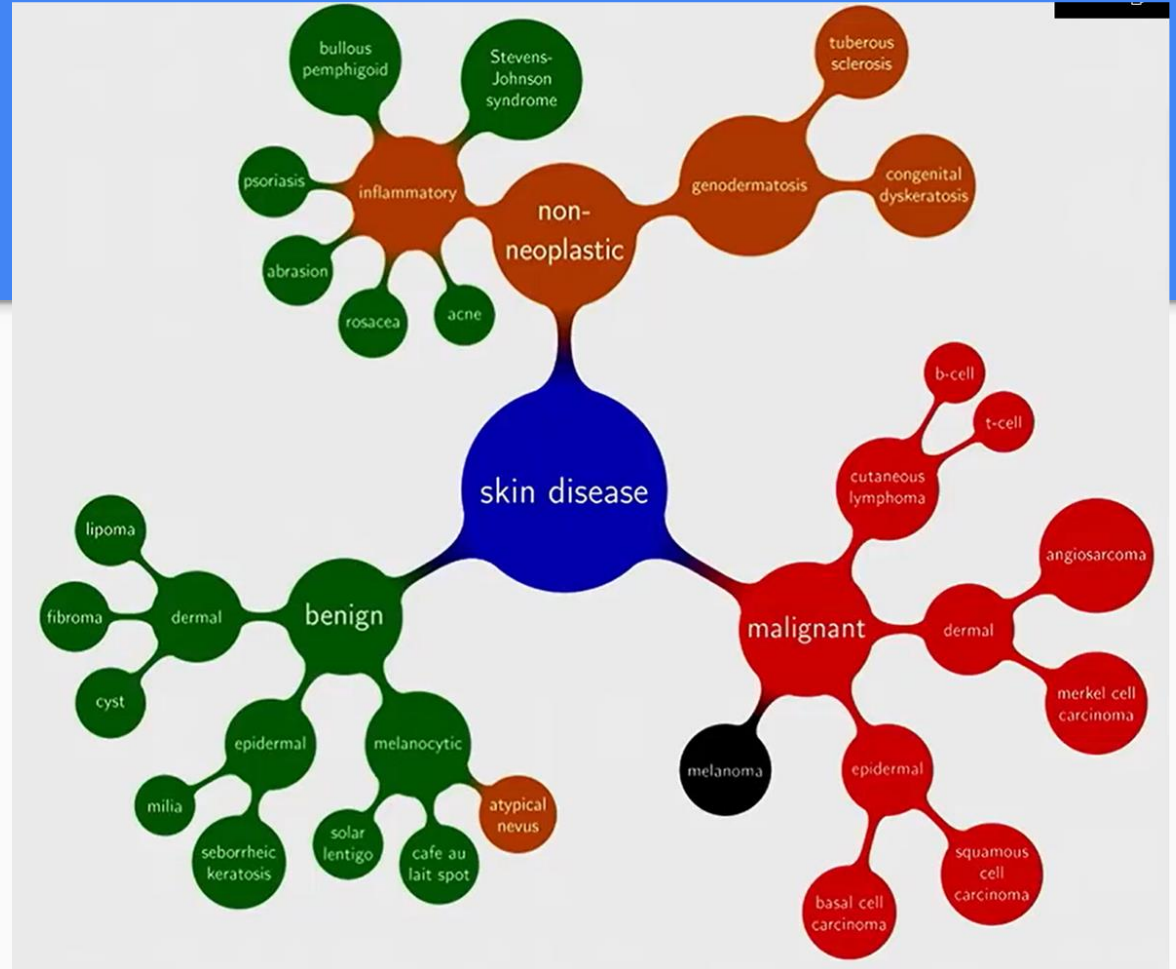


- People are not confident with the result of the app.

Statistics

- Survival rate of melanoma will be 98% if detected early
- More than half of people worry less about skin cancer than other cancers - while many do not realise it can be fatal, according to a poll.
- Some 53% are less worried about skin cancer than other cancers and 18% think it can be easily avoided, a survey for the British Skin Foundation found.
- A total of 38% do not realise that skin cancer can lead to death, while 56% do not know that malignant melanoma - the most deadly form of skin cancer - can spread to other parts of the body

Taxonomy of Skin Cancer



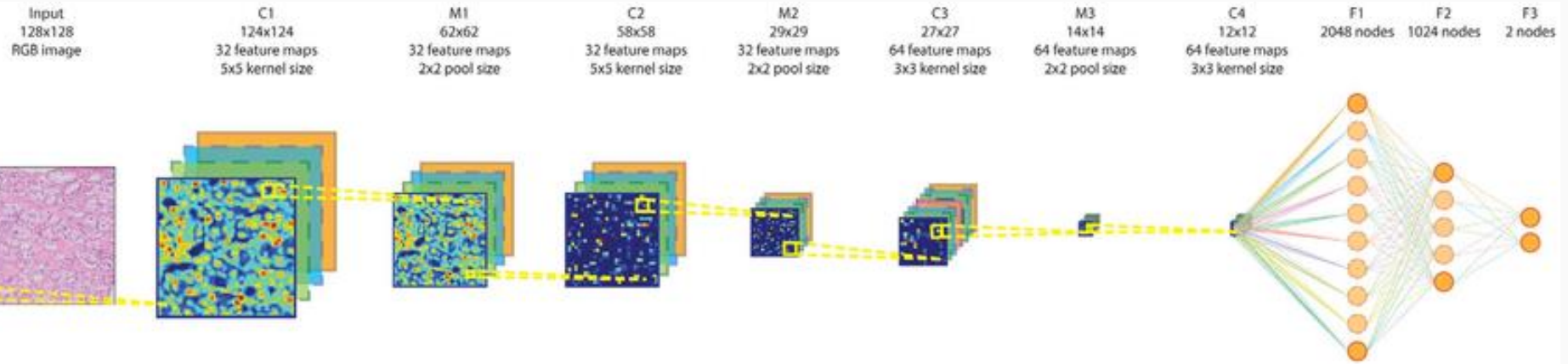


The solution

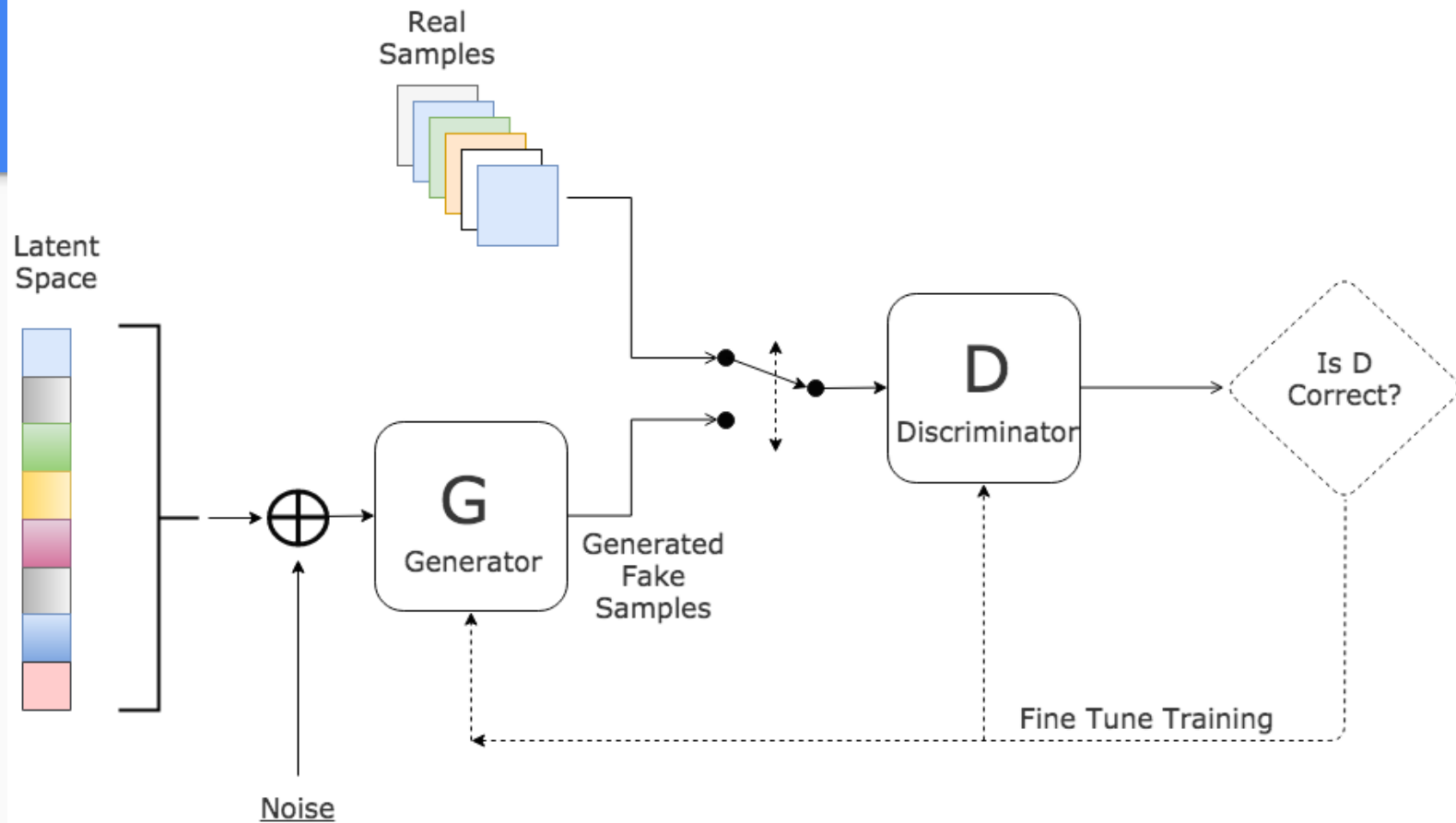
We are making a skin cancer classifier which classifies whether the user has cancer. The user can ask for online assistance to a doctor. More than half of people worry less about skin cancer than other cancers, while many do not realize it can be fatal, according to a poll.

We plan on building a state of the art models using generative adversarial networks. We do not plan to completely eliminate the traditional methods for detection of skin cancer. We merely want to supplement them and make basic diagnosis more affordable to the common man.

How it works - CNN

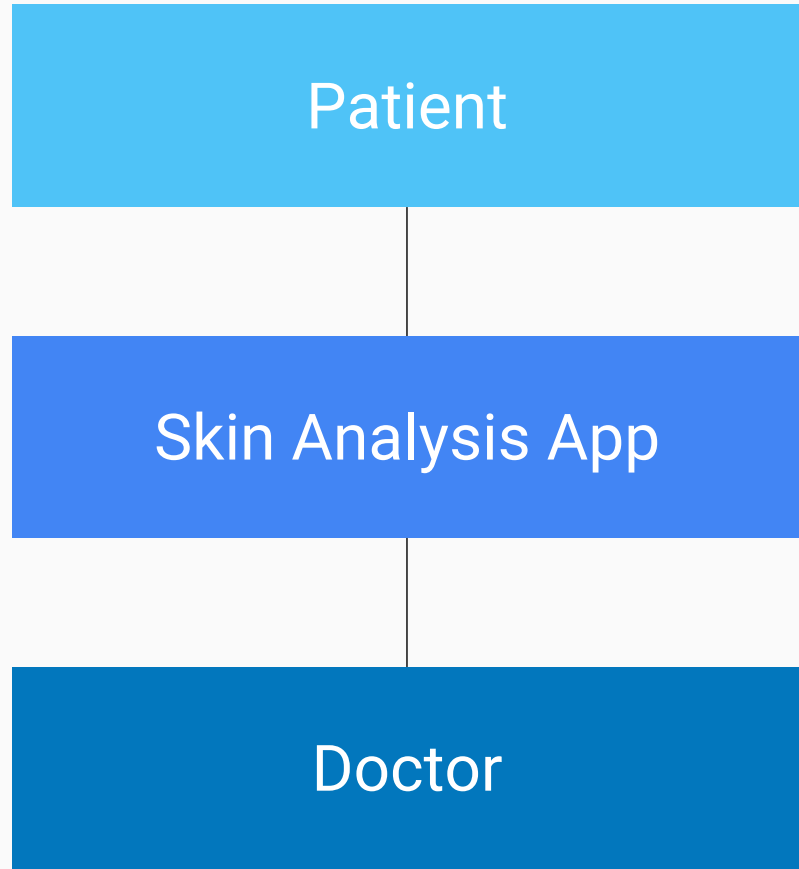


Generative Adversarial Network



Domain Model

Basically, the app forms an interactive platform between doctor and patient.




Going to a Skin Care Center

- Use dataset from internet as they are not having dataset of the patients in clarity.
- Do have a read on the articles of recent times for skin cancer treatment, if possible try to implement it.
- Harmed of holi colours, even they result in skin cancer at times



The App Design

📶 58% 1:54



👤 Username


🔒 Password

LOGIN

New user? signup here.

4G

📶 58% 1:54



Samyak

samyak@dscvit.com

CONTINUE

Login here.

4G

📶 59% 1:55

your nickname

sam

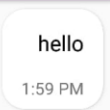
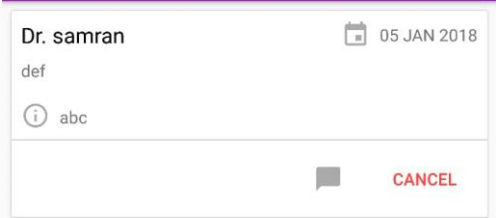
☒ I'm a doctor

about yourself

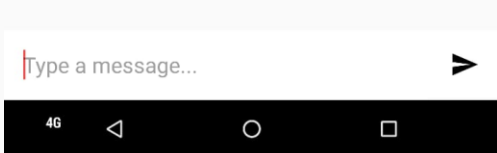
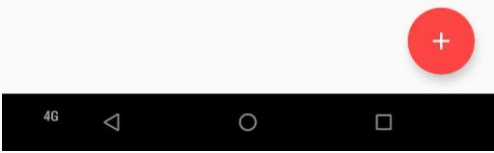
your qualifications

✓

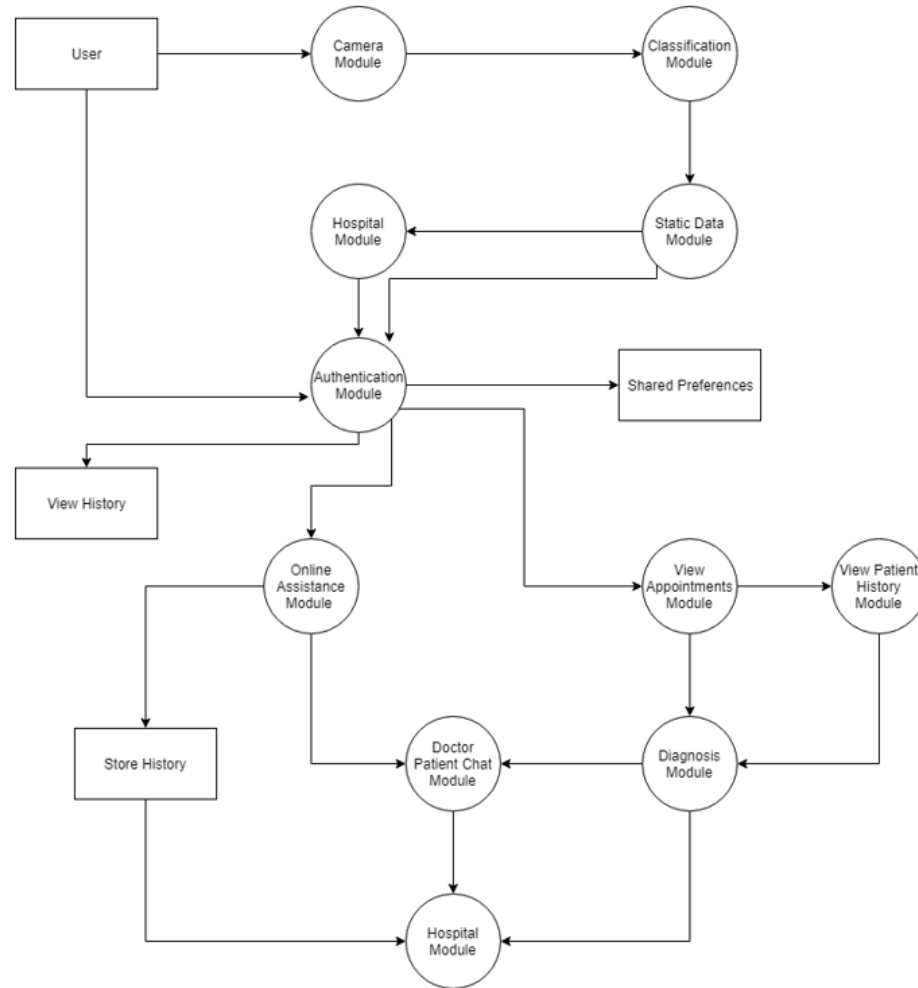
4G



No appointments yet



Architecture Layout



Individual Contribution

- Dhruv : Frontend
- Om: Backend Connection and ML
- Samyak: Deep Learning and GANS

Thank You