Ideation phase

Brainstorm & Idea prioritization Template

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| --- | --- |
| Date | 10 october 2022 |
| Team ID | PNT2022TMID30346 |
| Project Name | AI based localization and classification of skin disease with erythema |
| Maximum Marks | 4 Marks |

Brainstorm & Idea prioritization:



**1**

**problem state ment**

To overcome the skin diseases like psoriasis,skin cancer

,melanoma,w e are building a model w here the person can capture the imag es of skin and detect w hether the person is having skin disease or not

**IDEAS**

**PRIORITIZE IDEAS**

**Aiswary a**

**Fashiha**

Methods

A u t o m at e d sc r e e n i n g system for d er m at ol og y at

an ini ti a l st a ge

Im a ge pro cessing

techniques

**PROBLEM**

How we might to cure the skin diseases?

i m p o r v i n g ti m e t o

i nf or m a ti o n results

Wor k on

in p u t of co lo ur

i m a g e s

Required gigapixel

ca m e r a

Analysis

provides efficient approach to

identify

**J um a na**

**Y uk th a**

Diagonsed early to

redu ce th eir de velo pment

and s pre a d

Dia go ns e d ear ly to

r e d u c e t h e ir d e v el o p m e nt a n d s p re a d

T e x t ur e a n d

col o ur f e a t ur e s of di ff ere n ts kin

di s e as e w a s o bt a in e d .

Id e nti f y a n d lo c a t e t h e k ey p o i nts from i n put

image

usi ng h y bri d mo d e l

Functions

**Im p or t a n c e**

**Ideas**

f

p r o v i d e s

efficient a p p r oa c h t o

i d en tif y

s u cc e s si v el y s h o w

a c c ur a t e re s u lts

Require

To a c h i e v e

ma x im u m

ca mer a a n d acc uracy of

t h e im ag es

co m p ut e r res u lts si m p l e a n d ca n ea s ie r f or

fa st m e t h o d

d ermat al o gist to d e t e ct

provides efficient appr o a ch to

ide n tify

Features

f

**Feasibility**

**Group ideas**

**Sh a r e t em pl a t e f eed ba c k**

**TE A M ME MB E RS**

**1. A is war ya**

**2. Fashih a**

**3. Y u kth am u ki**

**4. Ju m an a j as hr in**

**Brainstorm**

**& idea prioritization**

**PROJECT TOPIC:**

AI based localization and

classi fi ca tion of s kin diseas e wi th erythema

the images can easier for dermatalogist

to detect

required gigapixel

camera

Require camera and

computer

si mpl e a n d fas t me t ho d

Results sho wn to user like t ype o dis e as e, s pre ad

an d se verit y

required gigapixel

camera

P r e pr o c e ss e d t o re m o v e n o is e a n d irrelevant

b a c kg r o u n d

Identify and lo cat e t he ke ypo int s fr o m in pu t

ima ge

imporving time to

in fo r ma tio n resul ts

Ima g e recognition fo r publi c

usa g e

the ima ges can e asier for derma talogis t

to detect

Au to ma ted scre eni n g syste m for

der matology at an in iti al st age

Results sho wn to user like t ype o dis e as e, s pre ad

an d se verit y

Using YOLOV3

detec tor

imporving time to

in fo r ma tio n resul ts

Diagonsed early to

redu ce th eir de velo p me nt an d s pr e ad

Ima g e processing

techniques

using hybrid model

Using YOLOV3

detector

**Tem pla te**

|  |  |  |
| --- | --- | --- |
| Achieving |  | Using YOLOV 3  d et e ct or |
| vario us |
| d i a g n o st ic |
| a c c ur a c y |
|  | Im a g e rec o gn iti on fo r p u bl ic  usage |  |
| R es ul ts s h o w n |  | Pr e pr oc es s e d |
| to u s er l i k e t y p e | to r e m o v e |
|  |  |
|  |  |
| s ev e rit y | b ac k g r o un d |