

*Pace University Capstone Project
By team Thunder Buddies*

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TEAM MEMBERS



Bhargava Chilukuri
Project manager



Kushal Arya Neela
**Front end
developers**



Sai Praneeth Chagiri
Front end developers

TEAM MEMBERS



Srinath Madagoni
Machine learning
engineers



Manoj Kumar Madhavarapu
Machine learning engineers



Akshara Uppu
Backend developers

TEAM MEMBERS



Manideep Kumar Reddy Kotha
Backened developer

Jagadeesh Mekhapothula
Backened developer and QA
tester

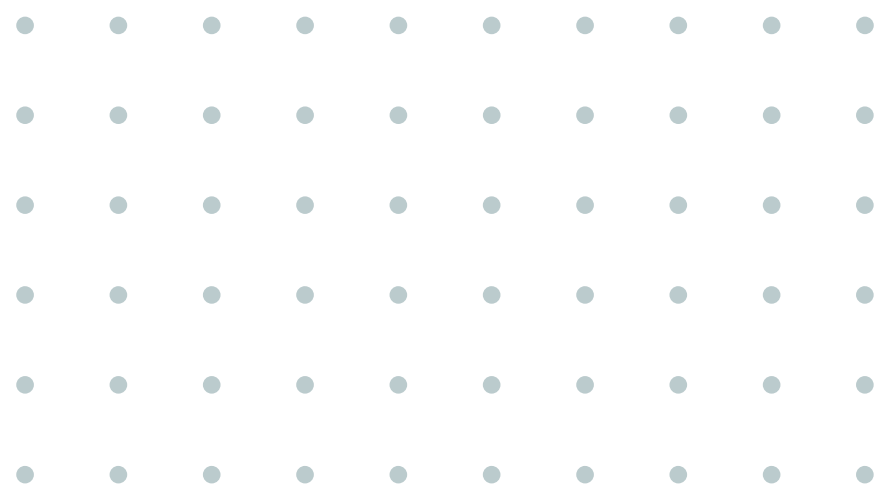
PROBLEM STATEMENT

The diagnosis of the dermatological problem is quite complex and it requires expert knowledge and even inaccurate results with no proper knowledge. At present digital solutions lack accuracy and simplicity usage of the application. Thus ,it creates a gap between the human solution and the digital solution. So DermAI comes in place which has a user-friendly interface and employs deep learning to diagnose skin conditions and give precision results. Which empowers everyone from general public to have expert dermatologists in their hands.



PROJECT DESCRIPTION

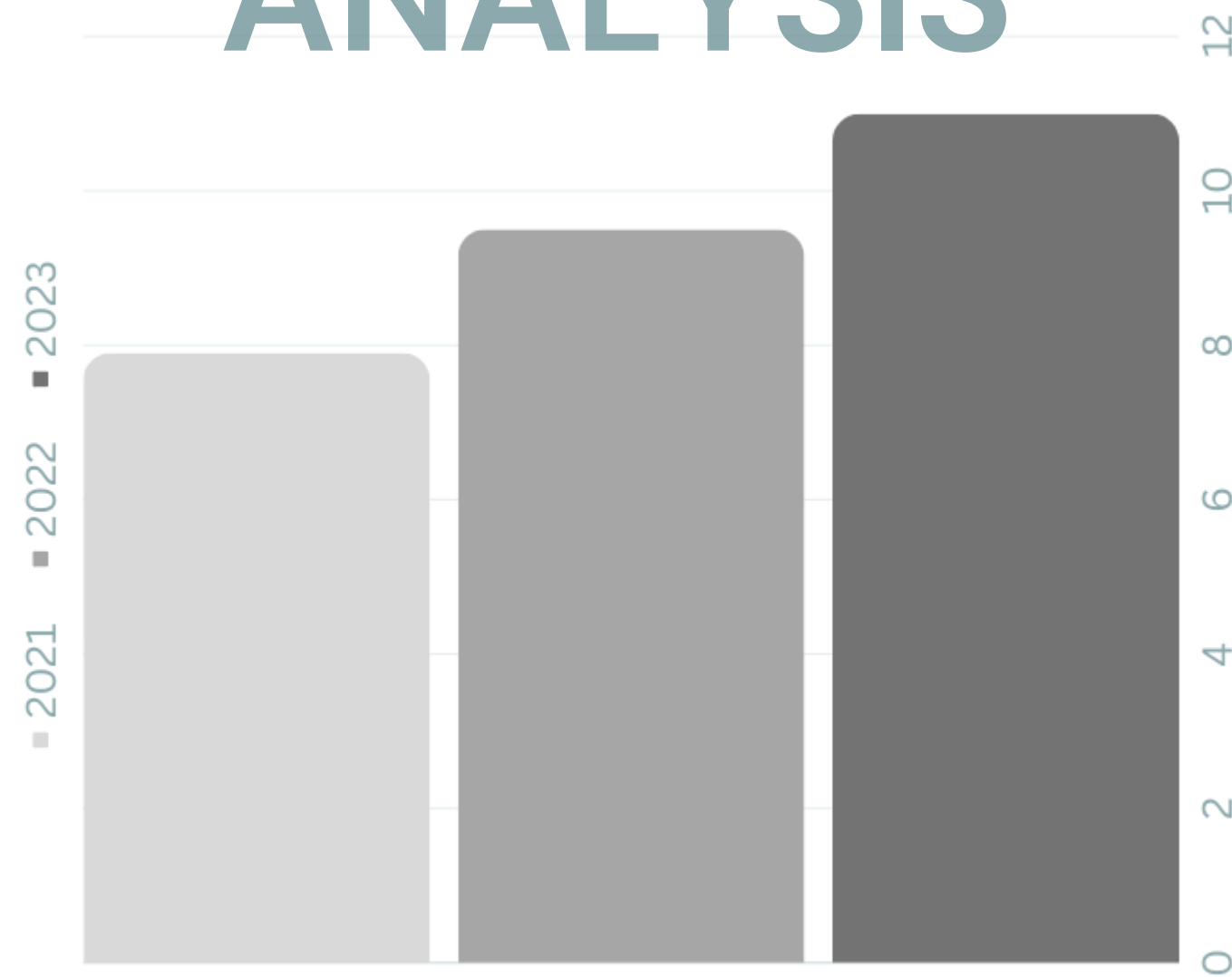
DermAI is a next-generation mobile Application that is designed to keep easy to use and get accurate diagnosis reports. It uses the latest deep learning model for detection of skin disease which powers the application. The Application is built with react native which gives a seamless cross-platform experience and the backend is supported by node js and flask. Use of TensorFlow is for deep learning and Firebase is used for authentication and database management. Digiocean is used for deploying the backend services to allow DermAI to give real-time results in dermatological reports.



MARKET ANALYSIS

PEOPLE

With the raise of smartphones, DermAI targets a growing demographic where users who require preliminary analysis tools.



MARKET

The teledermatology market is expanding and with CAGR of 16.3% by 2025

05.



PERSONAS



PERSONA 1



EMMA

THE BUSY PROFESSIONAL

AGE: 29

OCCUPATION: CORPORATE LAWYER

TECH-SAVVINESS: HIGH

NEEDS: QUICK , RELIABLE SKIN
CONDITION CAUSED DUE TO HER
BUSY WORK AND SCHEDULE.

PAIN POINTS: LACK OF TIME TO VISIT
DERMATOLOGISTS AND NEED FOR
IMMEDIATE ADVICE ON SKIN CARE.

PERSONA 2



DAVID

THE RURAL RESIDENT

AGE:45

OCCUPATION: FARMER

TECH-SAVVINESS: MODERATE

NEEDS: EASY ACCESS TO THE DERMATOLOGIST CARE, THE NEAREST CENTRE IS FEW HOURS AWAY

PAIN POINTS: GEOGRAPHICAL ISOLATED LOCATION AND RARE COMMUTE TO THE CITY MAKES IT DIFFICULT FOR REGULAR CHECKUPS AND SKIN CARE.

PERSONA 3



AGE:70

OCCUPATION: RETIRED

TECH-SAVVINESS: LOW

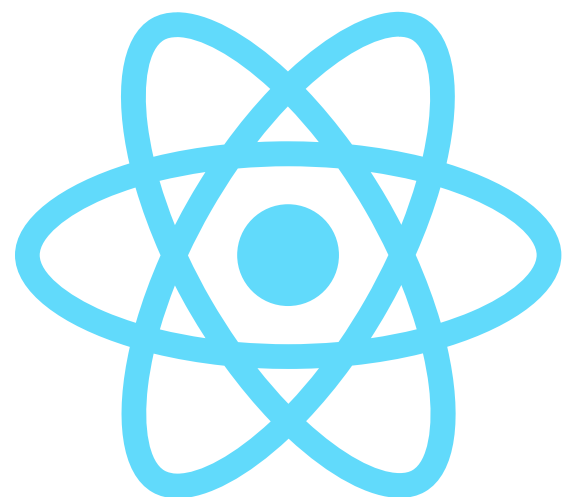
NEEDS: SHOWS EASE TO USE
INTERFACE FOR CHECKING SKIN
CONDITIONS.

PAIN POINTS: PREFERS SIMPLICITY AND
EASE IN TECHNOLOGY, OFTEN
CAUTIOUS ABOUT TRYING OUT NEW
DIGITAL AND AI TOOLS.

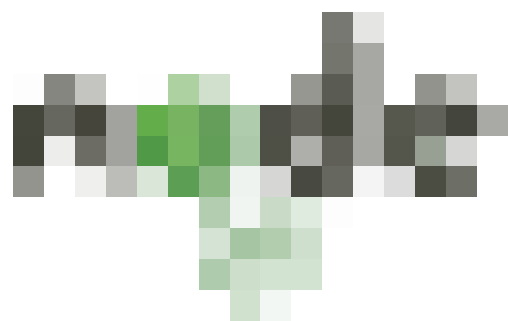
MICHAEL

THE SENIOR CITIZEN

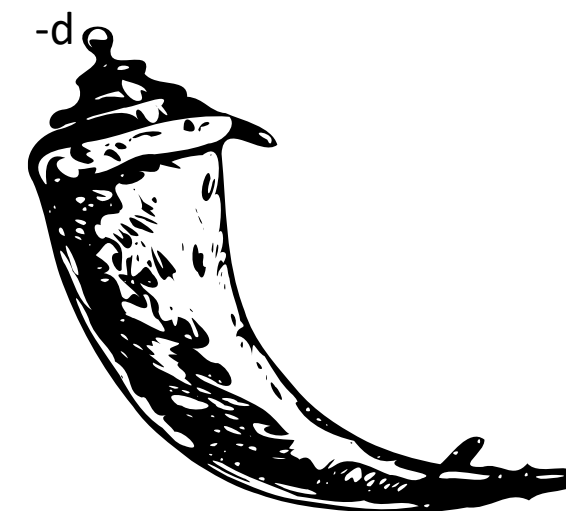
TECHNOLOGIES



React Native



TensorFlow



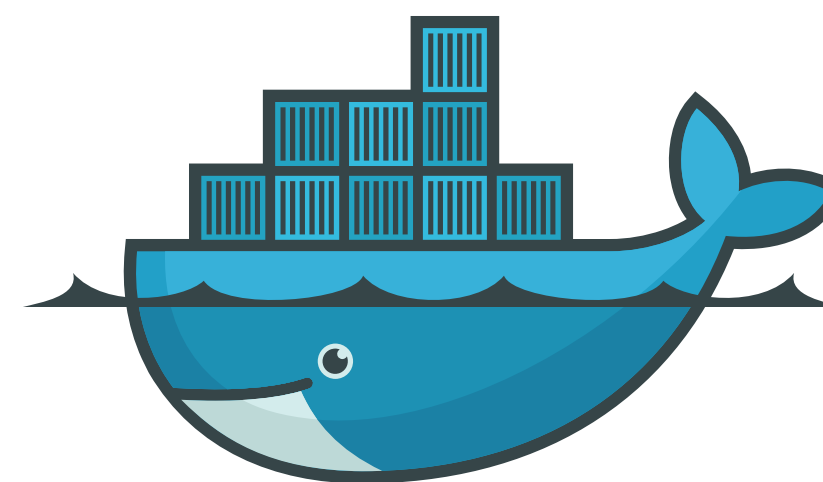
Flask



Firebase



Digital Ocean



docker

SPRINT 1 SCHEDULE

Tasks	Time
Project Idea and description	4 days
Finalizing roles	1 day
Tech stack	3 days



RETROSPECT

WHAT WENT WELL:

- Active Communication among team members
- Regular Scrum meetings
- Quick roles and Result based decisions

WHAT CAN BE IMPROVED:

- Being more efficient in critical points of the project
- Team building skills
- Comprehensive analysis in further sprint meetings

ACTION ITEMS:

- Making and implementing realistic goals
- Raising questions and further discussion about project analysis



WIKIPAGE



TEAM WORKING AGREEMENT

Team Name

Team Purpose:

Our goal is to bring collaborative knowledge and skills together for the completion of the Computer Science Capstone Project. Our project might have challenges to tackle and we will tackle those challenges and deliver the project on time.

Team Members:

1. Bhargava Chilukuri
2. Jagadeesh Mekhapothula
3. Sai Praneeth Chagiri
4. Kushal Arya Neela
5. Manideep Kumar Reddy Kotha
6. Manoj Kumar Madhavarapu
7. Srinath Madagoni
8. Akshara Uppu

Agreement

1. All teammates should share their opinions and even respect each other's opinions. The sharing of information should be transparent, if any of the team members is having any issue, they can react to other team members and try to solve the issue.
2. Team Members are responsible for their respective tasks and should deliver before the due date and if they are unable to finish it before the due date, they can reach out to other members.
3. All the roles are given based on your strengths and there shouldn't be any conflict between team members regarding roles.
4. Communication is key for success and weekly 2 meetings will be held one on Wednesday and the other on Saturday all team members should take part in the team meetings and all communications are done via Slack.
5. If any team member is unable to attend the meeting, then they have to prior inform the scrum master about it, and missing any team meeting is not advisable.
6. Missing more than 3 meetings will be informed to the professor.
7. All members should equally take part and give their best effort.



THANK YOU