# Facial Recognition Heartrate Monitor

# The problem

## The App

An application which reads your facial expressions recorded in a video and tells you your heartbeat.

## Our take on it

We want to make this app easy on the machine, unlike the heavy computations to which we have become accustomed.

## Our objective

Reduce dependence on machine. Minimise computation. Keep executable size small.

# Challenges deep-dive

## Challenge 1

**Reduce library dependence.**

We hard coded the algorithm to find peaks and heartrate.

## Challenge 2

**Minimise executable size.**

We avoided the usage of python for the algorithm.

## Challenge 3

**Maintain efficiency**

We made sure our application works for varying parameters of the video taken.

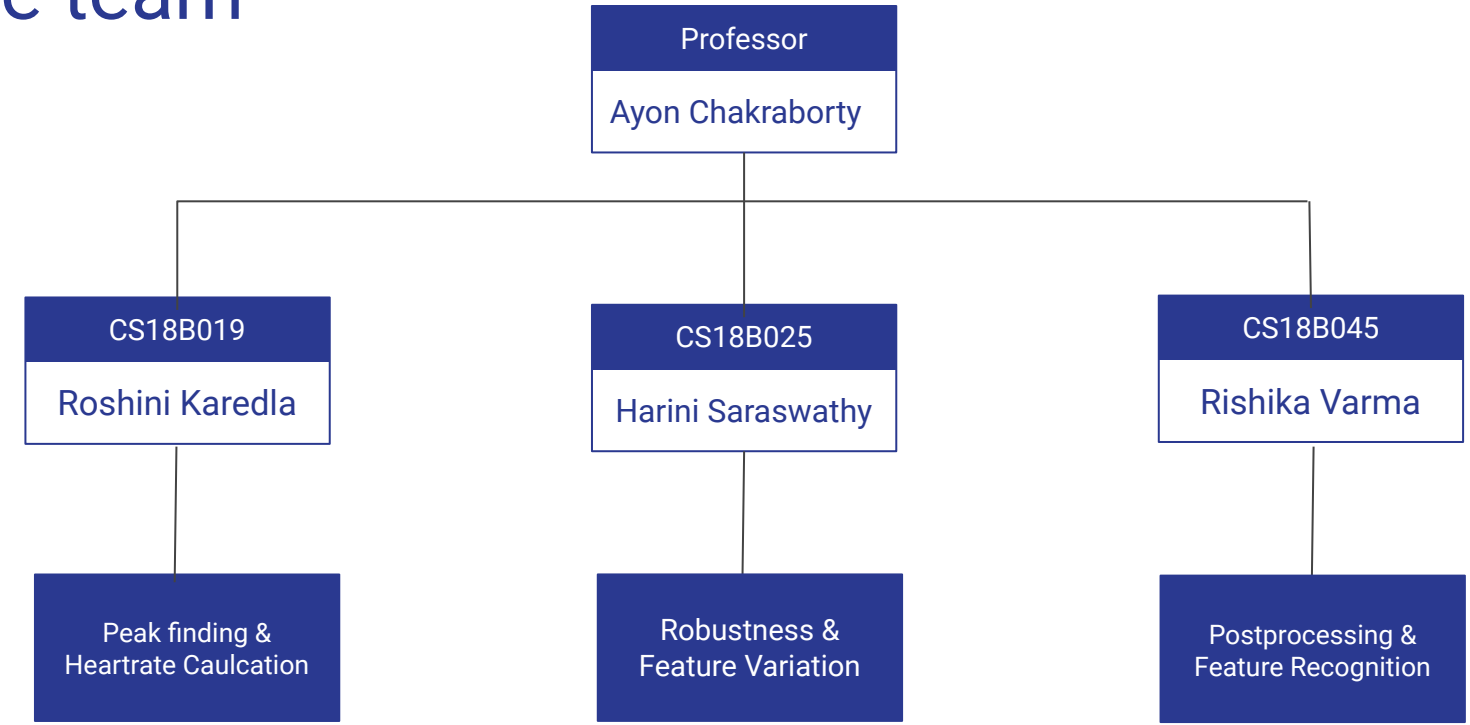
# Our motivation

Usability

- Done and dusted application
- Available literally everywhere on the internet
- What makes ours different?

# Demonstration

# The team


Professor
Ayon Chakraborty
CS18B019
Roshini Karedla
CS18B025
Harini Saraswathy
CS18B045
Rishika Varma
Peak finding &
Heartrate Caulcation
Robustness &
Feature Variation
Postprocessing &
Feature Recognition