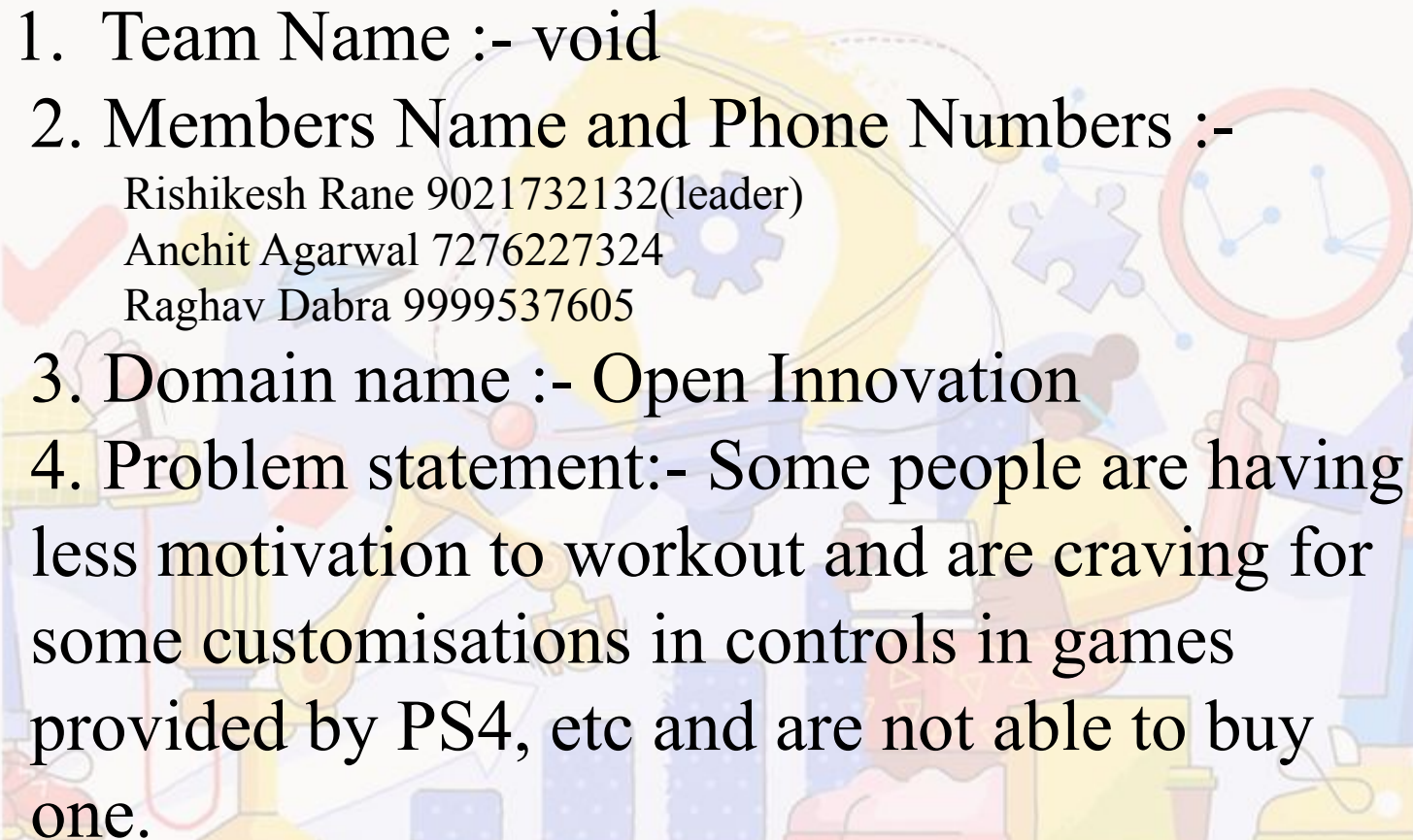


- 
- A colorful, stylized illustration in the background showing a person with a magnifying glass, gears, puzzle pieces, and a lightbulb, symbolizing innovation and problem-solving.
1. Team Name :- void
  2. Members Name and Phone Numbers :-
    - Rishikesh Rane 9021732132(leader)
    - Anchit Agarwal 7276227324
    - Raghav Dabra 9999537605
  3. Domain name :- Open Innovation
  4. Problem statement:- Some people are having less motivation to workout and are craving for some customisations in controls in games provided by PS4, etc and are not able to buy one.

## ABSTRACT

As we know that some people have utilised this pandemic in terms of exercise while some have not. This is mainly due to the **lack of motivation for working out**. Also, many of us are bored and we sometimes **crave for different types of games, movies, etc.**

Keeping this in mind we have come up with an idea which **solves both the problems by combining both.**

Our idea consists of an **open CV model** which enables the users to **play games while doing simple exercises like jumping, bending, etc.**

Games like **subways surfers, temple run** which require very basic arrow key controls are our **target.**

**Run the model, open up your favourite arrow controlled game, move your body according to the green coordinates shown and enjoy.**

This model **can be used** with both **browser and downloaded games.**

## NOVELTY

Many ML enthusiasts have built great **working out** and different type of **gaming applications** using **openCV**.

However, our model is solely made for **working out while playing games**. We have **targeted simple games** as to make **workout more practical** (because the most motivated ones are already in gyms!).

**Generally** these type of models are **for just one game** or are **too easy to play with**. Keeping this in mind we are going to make a model such that **can be used with more than one game**(with similar controls) and is also **not so easy to play with**.

For this type of customisation in games sensors, and other different of gaming remotes are needed, but here we just need a laptop.

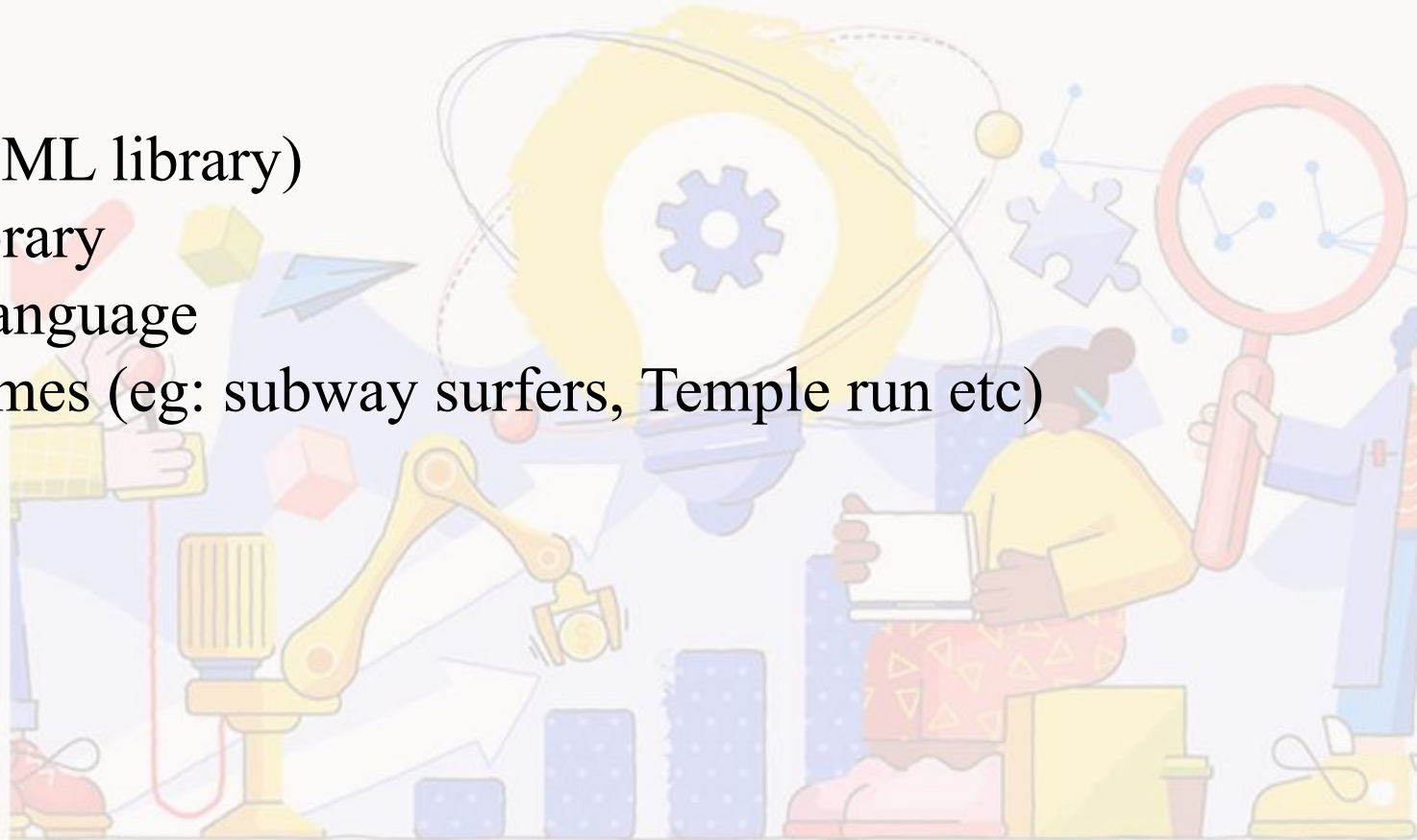
## TECHNOLOGY STACK

OpenCV (ML library)

Pynput library

Python3 language

Online games (eg: subway surfers, Temple run etc)

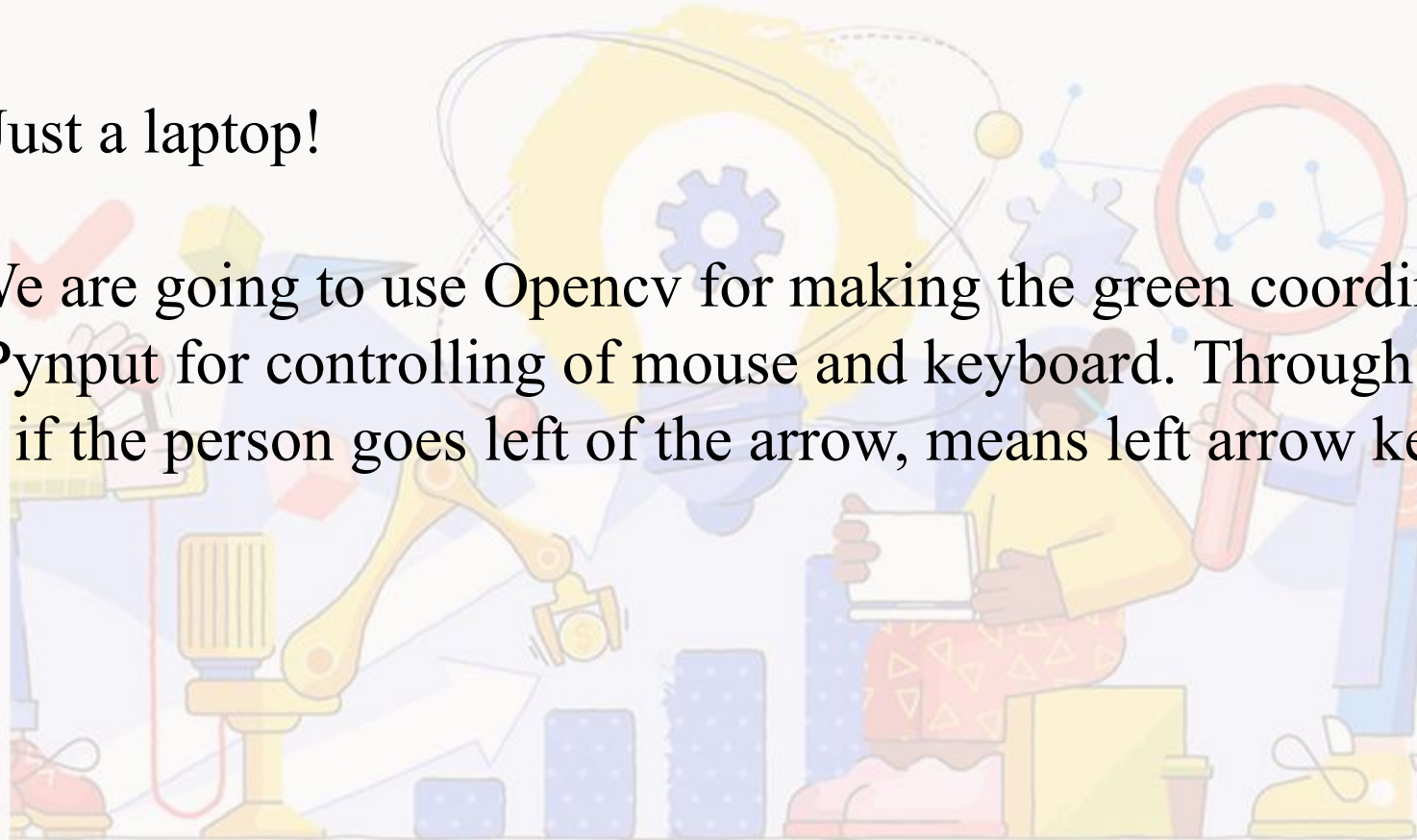




## HARDWARE / SOFTWARE IMPLEMENTATION

**HARDWARE** - Just a laptop!

**SOFTWARE** - We are going to use Opencv for making the green coordinates (representing arrow keys) and Pynput for controlling of mouse and keyboard. Through this we will make such a model that if the person goes left of the arrow, means left arrow key, and so on.



## BUSINESS SCOPE :-

We are building a game using **opencv** which you can play without keyboard just by using your whole body , no need to buy ps4,ps5,xbox for these experience , this project can give you experience of ps4,ps5 in very less amount of money or even free of cost .This can become **alternative** of these gaming instruments.