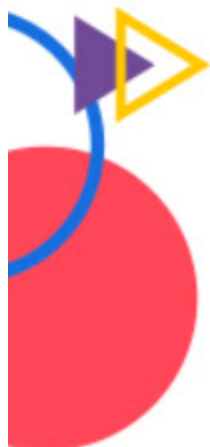




## Experienced Professionals Track - Innovaccer's HackerCamp'22 powered by Microsoft

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# Attentiveness Tracking System with Facial Recognition

Presented By:  
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# Overview

This is a simple demo to track employees and measure their **focus, attention, real-time efficiency and lot more...**

Aim of this idea is that user's working activities doesn't impact their health as well as performance and can keep employer and employees posted. So that the best solutions & recommendations may be provided on time to employee.


**I have attached the screenshots to show how the complete idea works...**

# Home View


This is home screen of the application, where the left side for the real time camera tracking and we can see various other features.


Right side are the controls of the application, For example: open camera, function buttons, and most importantly **Monitor Attentiveness**.

Dataset Creation

 Add Person

Training Process

 Training


 Accuracy


Auto Attendance

10:00


Start Auto


Image Recognition


 Browse Image


 Attendance

Manual Recognition

 Open Camera

 Take Photo


 Stop Camera


 Attendance


☐ Monitor Attentiveness

Display Results


Attendance Record

 Show All Records



 Make CSV File

Shobhit

 Attendance

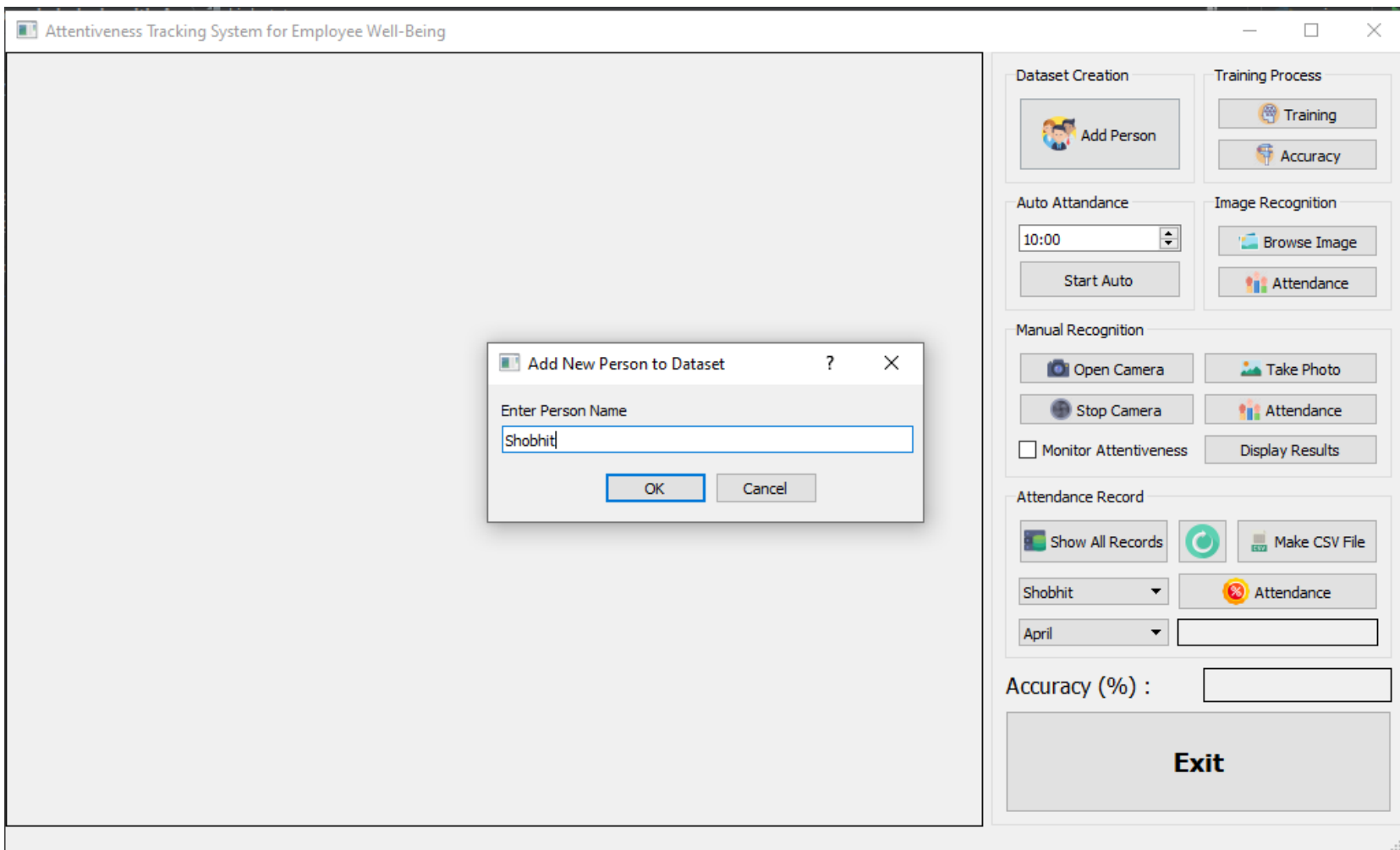
April

Accuracy (%) :

Exit

# Add Person/Employee

By clicking this Button, we can add any newly joined employee in our database, so that the tracking can be performed only when the employee is identified using the machine.



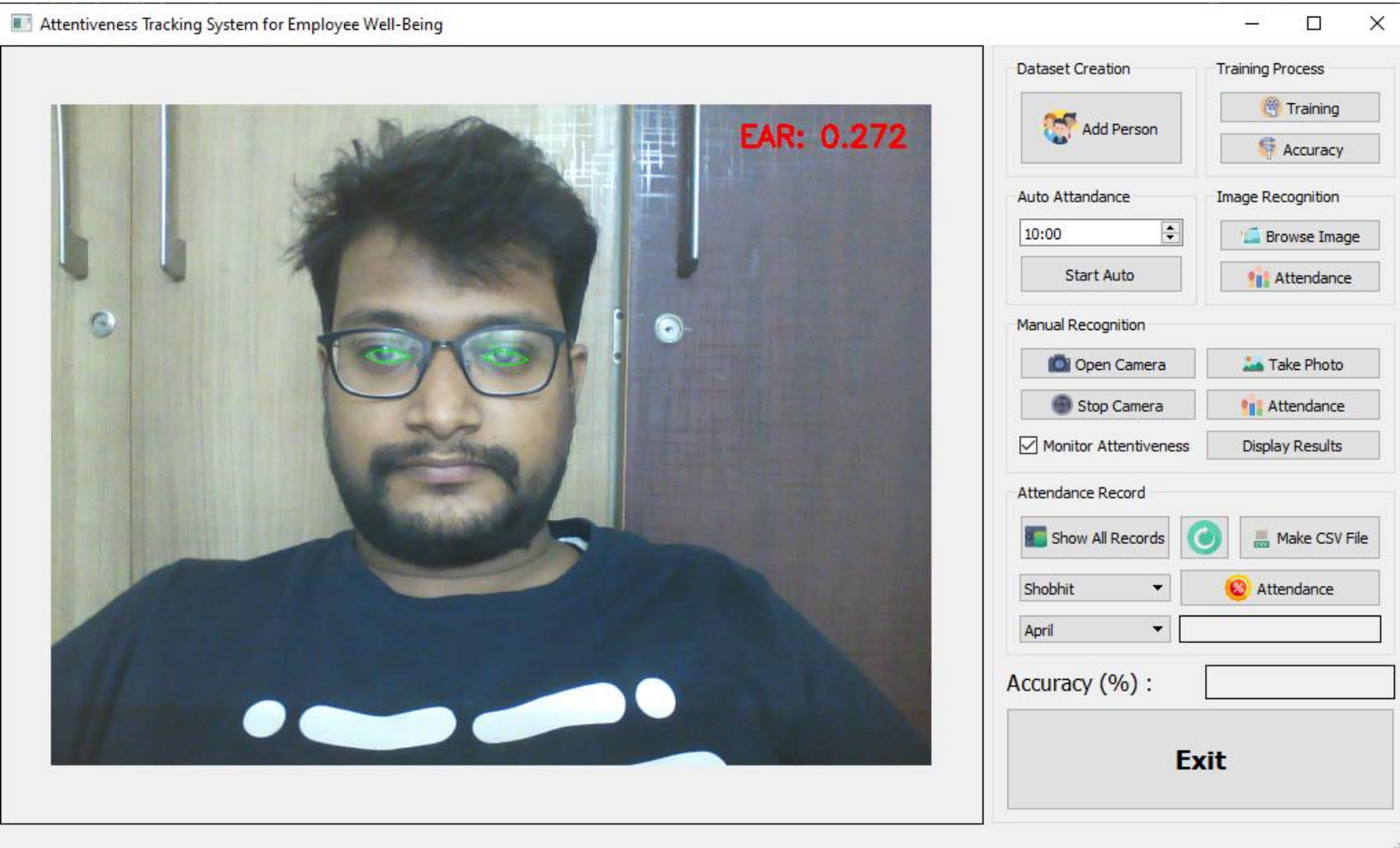
# Monitor Attentiveness

It is the heart of the application, when the user checks this option, he/she can check their real-time features that includes:

- 1.) Eye tracking
- 2.) Attentiveness/Inattentive tracking
- 3.) Yawn detection
- 4.) More to include in future scope.



# 1.) Eye Tracking



## 2.) Attentiveness/Inattentive tracking

Attentiveness Tracking System for Employee Well-Being



Dataset Creation



Training Process

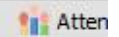
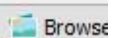


Auto Attendance

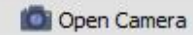
10:00

Start Auto

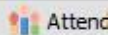
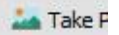
Image Recognition



Manual Recognition

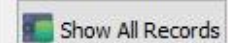


☒ Monitor Attentiveness



Display Record

Attendance Record



Shobhit

April



Accuracy (%) :

Exit

# 3.) Yawn Detection

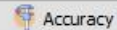
Attentiveness Tracking System for Employee Well-Being



Dataset Creation



Training Process

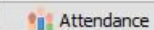
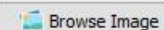


Auto Attendance

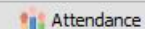
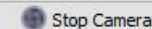
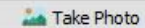
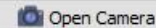
10:00

Start Auto

Image Recognition



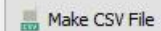
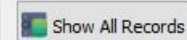
Manual Recognition



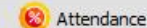
☒ Monitor Attentiveness

Display Results

Attendance Record



Shobhit



April

Accuracy (%) :

Exit

# Results

 All Persons Attentiveness Report

?

×

Names	Eye Blink Count	ntiveness Percent	Yawn Count	n Fatigue Percent
Akansha	5	92.3076923076923	0	100.0
Shobhit	1	98.46153846153...	0	100.0
ShobhitAgarwal	65	0.0	114	0.0

OK

Cancel