PROPOSED SOLUTION TEMPLATE

Date	24 September 2022
Team ID	PNT2022TMID32179
Project Name	AI-Powered Nutrition Analyzer for Fitness Enthusiasts
Maximum Marks	2 Marks

S.No.	Parameter	Description
1.	Problem Statement (problem to be solved)	• The main objectives of this project is to monitor, detect and alert the drowsiness of the human. • The drowsiness can negatively impact people in working and classroom environment as well. Although sleep deprivation and college go hand in hand, drowsiness in the workplace especially while working with heavy machinery may result in serious injuries similar to those that occur while driving drowsily. • Our solution to this problem is to built a detection system that identifies key attributes of drowsiness and triggers an alert when someone is drowsy before it is too late.

2.	Idea / Solution Description	• The primary step of this project idea is to take the input from the camera which is monitor the human fatigue(i.e, eye, mouth) through EAR and MAR techniques. • Based on the inputs from the camera it will determine the whether the human is it feel drowsy or not. • Through this analyse the alert will be sound like “Are you sleepy?, you are so drowsy take some rest “like that.
3.	Novelty / Uniqueness	• This model can monitor the behaviour of eye and mouth of human and based on the behaviour values it detect drowsiness. • This model collects the input from user through camera and analyse the input the predict the drowsiness. • Based on the prediction it will alert the user drowsiness.
4.	Social Impact / Customer satisfaction	• Helps the fitness enthusiast to find the drowsiness level of human and alert the human to take rest for maintain his/her health in better way. • It also prevent the accidents which is made by the human when he is on drowsy.
5.	Business Model (Revenue Model)	• Data analyses from the camera • Prediction • Alert the user

6.	Scalability of the solution	• The solution is developed in the such a way that we can update the system without disturbing the current model. • All the future enhancements can be added to the system without changing the model.