**Project Design Phase-I**

**Proposed Solution**

|  |  |
| --- | --- |
| Date | 16 October 2022 |
| Team ID | PNT2022TMID31210 |
| Project Name | Deep Learning Fundus Image Of Early Detection of Diabetic Retinopathy |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

The main aim of this project is to create an appropriate machine learning model to detect Diabetic Retinopathy as early as possible.

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | 1)To find the presence of lesions in the eye.  2) To find HbA1c level  3) Early detection of illness |
|  | Idea / Solution description | 1)Prediction is done at a faster rate.  2)Accuracy of prediction.  3)laser treatment can stop or slow the leakage of blood and fluid in the eye. |
|  | Novelty / Uniqueness | 1) Use of powerful deep neural network.  2) It provides robust and trusted support.  3)Maintaining database which contains details of the disease. |
|  | Social Impact / Customer Satisfaction | 1) Reduction of Diabetic Retinopathy risk.  2) Provides Digital Assistance.  3) Very helpful in making decisions faster.  4) Can be used 24x7. |
|  | Business Model (Revenue Model) | 1) This can be implemented as an essential diagnosis method in every hospital.  2) Accurate detection and analysis can encourage the increase in financial benefit. |
|  | Scalability of the Solution | 1) Accurate predictions and extensive use.  2) Based on the times of the correct diagnosis.  3) Availability. |