**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID32447 |
| Project Name | Project - Statistical Machine Learning Approaches to Liver Disease Prediction |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | Our aim is to predict patients with Liver disease. |
|  | Idea / Solution description | We are building a machine learning model to predict the disease for liver. |
|  | Novelty / Uniqueness | The major limitation of CNN is its inability to encode Orientational and relative spatial relationships, view angle. CNN do not encode the position and orientation of data. Lack of ability to be spatially invariant to the input data sample. This is resolved in this research work by combining the genetic algorithm with the CNN method. |
|  | Social Impact / Customer Satisfaction | Chronic liver disease is a unique kind of public health problem. As the consequence of infectious etiologies (hepatitis B and hepatitis C) as well as lifestyle behaviors (alcohol consumption and obesity).It spans both communication non communicable categories of disease. |
|  | Business Model (Revenue Model) | It cost efficiency and also provides best results. |
|  | Scalability of the Solution | This model can be expanded to include more attributes for more accurate Detection. Training the model with more attributes will increase the efficiency further. |