**Project Design Phase-I**

**Proposed Solution Template**

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| Proposed Solution Template Date | 07 November 2023 |
| Team ID | 591761 |
| Project Name | Predicting Mental Health Illness of Working Professionals Using Machine Learning |

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| S.No. | Parameter | Description |
| 1. | Problem Statement (Problem to be solved) | As the world is running in the trend of innovating new things every day, we can see companies growing day by day, the main base would be the employees who work for the benefits of the company. As the working hours increase gradually the pressure increases on the working professionals and having other personal problems there are many working professionals suffering from Mental Illness. The health of working professionals is as important as the growth of the company. So, it would be better if we can predict the mental illness of the working professionals based on classification algorithm, Logistic Regression. |
| 2. | Idea / Solution description | To develop a Mental Illness Prediction System leveraging the classification algorithms: Logistic Regression, KNN, Decision Tree, Random Forest. This system inputs various aspects about the working professional like- awareness of mental health, negative consequences of discussing with co-working professionals. It would output whether he/she requires mental health treatment or not. |
| 3. | Novelty / Uniqueness | Using Logistic Regression, Decision Tree, KNN we would be predicting whether a working professional is suffering from mental illness or not. We would be recommending some basic tips that might help them to tackle their situation and motivate them to approach solution to their mental health condition. |
| 4. | Social Impact / Customer Satisfaction | By predicting the mental illness of working professionals, we leverage them in fostering their health condition. This would benefit their work life to complete their tasks in more efficient way. It would make them stable in behaving towards others. It would be more sensible when a working professional with full of peace and clear mind speaking to their higher authorities. And in personal as well, they will have a good family life when they get cure of their mental health. |
| 5. | Business Model (Revenue Model) | The profits of the company somehow depend on the proficiency of the working professionals. When the company employees are in a good mental health condition, they help in fostering the profits of the company. This leads to the further growth of the company. Healthy working professionals in a company will lead to a healthy growth of the company. This in return provides extra benefits to the working professionals. |
| 6. | Scalability of the Solution | Predicting mental illness can be scalable further. It can more efficiently recommend working professionals with optimised solutions for their mental health condition, help them overcome their insecurities, and boost them with slight confidence of cure. |