

Project Design Phase-I
Proposed Solution Template

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| Date | 07 November 2023 |
| Team ID | Team-591602 |
| Project Name | FetalAI-Using Machine Learning to Predict and Monitor Fetal Health |
| Maximum Marks | 4 Marks |

Proposed Solution Template:

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

| S.No. | Parameter | Description |
|-------|--|--|
| 1. | Problem Statement (Problem to be solved) | Create FetalAI using ML for real-time fetal health monitoring, enhancing prenatal care, and mitigating pregnancy risks through accurate predictive analysis. |
| 2. | Idea / Solution description | FetalAI revolutionizes prenatal care by utilizing advanced machine learning algorithms, including Gradient Boosting, Random Forest, and K-Nearest Neighbors. Achieving remarkable accuracies—90%,92%,and88%,respectively—this solution ensures precise fetal health monitoring. Its predictive analysis enhances maternal care, exemplifying a novel and impactful approach to mitigate pregnancy risks. |

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| 3. | Novelty / Uniqueness | Our solution stands out due to its use of cutting-edge machine learning techniques tailored for fetal health monitoring, ensuring precise and timely predictions. |
| 4. | Social Impact / Customer Satisfaction | The solution contributes to improved maternal and child health, reducing pregnancy risks and increasing overall satisfaction with prenatal care. |
| 5. | Business Model (Revenue Model) | Implement a subscription-based model for healthcare providers, offering premium features and personalized analytics. Additionally, collaborate with medical institutions for enterprise solutions. |
| 6. | Scalability of the Solution | The solution is designed to be scalable, accommodating a growing number of users and expanding to different healthcare settings. Cloud-based infrastructure ensures flexibility and scalability. |