**Project Design Phase**

**Proposed Solution Template**

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| Date | 27 June 2025 |
| Team ID | LTVIP2025TMID44403 |
| Project Name | Pattern Sense:Classifying Fabric Ptterns using Deep Learning |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

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

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | To develop an AI-powered pattern design tool that can assist designers and crafters in creating visually appealing and effective patterns for various applications such as textiles,fashion etc.The tool should be able to analyze user input such as pattern type and design style . |
|  | Idea / Solution description | The proposed solution is to develop a web-based application that uses ML algorithms to generate patterns based on user input.The application will have user-friendly interface that allows users to select their preferred pattern type . |
|  | Novelty / Uniqueness | The novelty of the proposed solution lies in it’s ability to use ML algorithms to generate unique patterns.The solution is unique because it combines the creativity of human designers with the power of AI to generate patterns. |
|  | Social Impact / Customer Satisfaction | The proposed solution help to reduce the time and effort required to identify fabric type.In terms of customer satisfaction,the solution is expected to receive high ratings due to it’s ease of use and flexibility. |
|  | Business Model (Revenue Model) | The proposed business model for the pattern sense project is a free model without any subscription. |
|  | Scalability of the Solution | The proposed solution is highly scalable.The application can be scaled up or down depending on the number of users.Additionally,the application will have a content delivery network to ensure fast and reliable access to patterns and other resources. |