## Requirement Analysis Requirements (Functional & Non-functional)

Date	27 June 2025
Team ID	LTVIP2025TMID59820
Project Name	Pattern Sense: Classifying Fabric Patterns Using
	Deep Learning
Maximum Marks	4 Marks

## 3.1.1 Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Fabric Pattern Identification	Automatically classify and label fabric patterns from
		images
FR-2	Accuracy	Ensure high precision in pattern classification to
		avoid mislabeling
FR-3	User Satisfaction	Users should be satisfied with the accuracy and
		speed of the pattern classification results

## 3.1.2 Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The system shall provide a simple, user-friendly
		web interface for uploading fabric images and
		viewing classification results.
NFR-2	Reliability	The system shall consistently deliver accurate
		pattern predictions under normal operating
		conditions.
NFR-3	Performance	The system shall provide classification results
		within 2-3 seconds per image with high accuracy.
NFR-4	Availability	The system shall be operational and available at
		all times during demonstrations or real-time
		sessions.
NFR-5	Scalability	The system design shall allow for future
		scalability, including handling higher user traffic,
		batch classification of multiple fabric images, and
		expanding to new pattern categories.