Project Design Phase
Proposed Solution Template

Date	30 June 2025
Team ID	LTVIP2025TMID38674
Project Name	GrainPalette - A Deep Learning Odyssey In Rice Type Classification Through Transfer Learning
Maximum Marks	2 Marks

Proposed Solution Template:

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

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	The accurate classification of rice types issolved)critical in agriculture, food processing, andtrade, as different rice varieties possess.
2.	Idea / Solution description	The model will learn key features from ricegrain images to correctly identifytheirtype
3.	Novelty / Uniqueness	It enables fast and consistent classification, reducing dependenceonhumanexpertise.
4.	Social Impact / Customer Satisfaction	Improved quality control: Helps businessesSatisfactionmeet customer expectations and regulatorystandardsmoreeasily
5.	Business Model (Revenue Model)	Development and continuous improvementofthemodel.
6.	Scalability of the Solution	If you plan to support many more ricevarieties or handle regional variants, yourdataset may need to growsubstantially.