Project Design Phase-I

Proposed Solution Template

Date	23 October 2023
Team ID	Team-592149
Project Name	Image caption generation
Maximum Marks	4 Marks

Proposed Solution Template:

S.NO	Parameter	Description
1	Problem Statement (Problem to be solved)	In today's digital era, there's a pressing need for tools that translate images into contextual textual descriptions, serving everyone from the visually impaired to content creators.
2	Idea / Solution description	A deep learning-based system combining CNNs and RNNs/Transformers to generate accurate and contextually relevant image captions.
3	Novelty / Uniqueness	Adaptive learning from user feedback, offering multiple captioning styles (formal to poetic).
4	Social Impact / Customer Satisfaction	Enhanced web accessibility, streamlined content creation, and educational applications.

5	Business Model (Revenue Model)	Freemium services with premium features, API licensing for businesses, and an ad-supported platform.
6	Scalability of the Solution	Infrastructure ready for user growth, potential extension to video captioning, and adaptation for specialized fields like medical imaging