



## Problem Statement – 1 (category – Gen AI)

**Build a Generative AI Solution from Scratch**

### 1. Objective

Participants are required to develop a **Generative AI-based system** that demonstrates innovation and practical application. The project can belong to :

**Text Generation** – AI-driven storytelling, summarization, or question-answering.(any kind of text generation)

The project can be implemented as a **full-stack application, standalone backend system, or an algorithmic model** without a UI.

### 2. Features

- A **self-built AI model** that generates meaningful and structured outputs.

- Ability to process input text prompt and generate intelligent responses.
- A well-documented details about model training, dataset usage, and fine-tuning techniques, Clearly define techniques or algorithms used for building model.
- Though UI is not strictly (optional) required, it will be beneficial for better demonstration and usability.

### 3. Constraints

- **No external APIs** – AI models must be developed from scratch or fine-tuned using open- source datasets. Third-party AI services (e.g., OpenAI, Google AI, Hugging Face API) are not allowed.
- **Originality required** – The project should not be a simple implementation of existing open- source tools without significant modifications.

### 4. Tech-Stack

- Use any language based library to create models