# GEN AI PROJECT PHASE 1 - Proposal & Idea Submission

Project Title: Chatbot Assistant using Generative AI

Domain: Generative AI | NLP | Chatbots

## Problem Statement

Traditional rule-based chatbots lack flexibility and contextual understanding. This project aims to build a chatbot powered by a pre-trained GPT-2 model, capable of generating intelligent and context-aware responses.

## Proposed Solution

We will use HuggingFace Transformers with GPT-2 to create a chatbot. This will run in a Google Colab notebook, allowing users to chat in a loop-based prompt format.

## Objectives

- Build a chatbot using GPT-2.  
- Enable interactive user input and response generation.  
- Demonstrate simple, intelligent dialogue.

## Expected Outcome

- A working chatbot assistant in Google Colab.  
- Code ready for enhancements like UI or API deployment.

## Tools & Technologies

Python, HuggingFace Transformers, GPT-2, Google Colab