Generative AI Suggested Projects For Hackathon

Note: Do not just stick to these ideas, you can build your own idea as well. Best of Luck!!!

Here are 15 Generative AI application project ideas that can be developed and deployed in a 2-day hackathon using existing models on Hugging Face, with support from ChatGPT for implementation:

1. **Text Summarization Tool**

   Description: Develop an app that automatically summarizes long articles or documents into concise summaries.

   Model: Use pre-trained text summarization models like BART or T5 from Hugging Face.

2. **AI-Powered Chatbot for Customer Support**

   Description: Create a chatbot that can handle customer inquiries using a conversational AI model.

   Model: Use models like GPT-3 or DialoGPT to build a responsive chatbot.

3. **AI-Based Content Generator**

   Description: Build an app that generates blog posts, social media content, or product descriptions.

   Model: Leverage models like GPT-3 or GPT-Neo for content creation.

4. **AI-Powered Translation Service**

   Description: Develop a real-time translation app that supports multiple languages.

   Model: Use models like MarianMT or M2M100 for translation tasks.

5. **Sentiment Analysis Tool**

   Description: Create an app that analyzes the sentiment of user-generated content like tweets or reviews.

   Model: Utilize BERT-based sentiment analysis models from Hugging Face.

6. **Image Captioning Tool**

   Description: Build an app that generates captions for images uploaded by users.

   Model: Use models like BLIP or VQGAN+CLIP for generating image descriptions.

7. **AI-Driven Email Assistant**

   Description: Create an application that drafts email responses based on the content of incoming emails.

   Model: Use a fine-tuned version of GPT-3 for generating email content.

8. **Resume Enhancer**

   Description: Develop an app that helps users improve their resumes by suggesting enhancements and optimizing language.

   Model: Leverage BERT or GPT-based models fine-tuned for professional language enhancement.

9. **Text-to-Speech Converter**

   Description: Create an app that converts written text into natural-sounding speech.

   Model: Use models like Tacotron 2 or TTS models available on Hugging Face.

10. **AI-Based Quiz Generator**

    Description: Develop an application that generates quizzes based on inputted text, such as a document or article.

    Model: Use a combination of text generation and comprehension models like GPT-3 or BERT.

11. **AI-Powered Personal Finance Assistant**

Description: Create a tool that helps users manage their finances by analyzing spending patterns and suggesting savings strategies.

Model: Utilize NLP models for financial data analysis and recommendations.

12. **AI-Based Art Generator**

Description: Build an application that generates unique pieces of art or images based on textual descriptions.

Model: Use DALL-E mini or CLIP-based models for text-to-image generation.

13. **Recipe Generator**

Description: Create an app that generates cooking recipes based on available ingredients input by the user.

Model: Utilize GPT-3 or similar models fine-tuned for recipe generation.

14. **AI-Driven Story Generator**

Description: Develop an application that generates creative short stories based on a given prompt.

Model: Use GPT-3 or other story generation models available on Hugging Face.

15. **Voice-Based Virtual Assistant**

Description: Create a virtual assistant that responds to voice commands to perform tasks like setting reminders or searching the web.

Model: Combine speech-to-text models (like Wav2Vec) with NLP models for understanding and executing commands.