

1. Text Generation using GPT-2 with BRAD Framework

```
!pip install transformers torch -q
from transformers import GPT2LMHeadModel, GPT2Tokenizer

from transformers import AutoTokenizer, AutoModelForCausalLM
import torch

model_name = "microsoft/phi-2" # smaller, instruction-following model

tokenizer = AutoTokenizer.from_pretrained(model_name)
model = AutoModelForCausalLM.from_pretrained(model_name)

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prompt = """Background: You are preparing content about Artificial
Intelligence and its real-world impact.
Role: Act as a technology expert and educator.
Action: Explain how AI is transforming different industries in simple terms.
Details: Keep the tone informative and inspiring for college students.

Response:"""

inputs = tokenizer(prompt, return_tensors="pt")

outputs = model.generate(**inputs, max_new_tokens=200, temperature=0.8,
top_p=0.9)
print(tokenizer.decode(outputs[0], skip_special_tokens=True))
```