

Gen-AI Unit 1 Project

Name: Jeel Nada
SRN: PES2UG23CS357
Section: F
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Problem Statement: The AI Storyteller

Goal: App that takes a starting sentence (e.g., "The knight entered the dark cave") and generates a short creative story.

Tech: Use `gpt2` with non-deterministic sampling (`do_sample=True`) for creativity.

Abstract:

This project implements a simple AI-based Storyteller system that generates short stories from a given starting sentence. The user enters the first line of a story, and the system continues the story automatically using an artificial intelligence model. The GPT-2 language model is used to understand the input text and generate meaningful and creative story content.

The project is developed using Python in a Jupyter Notebook environment. Non-deterministic sampling is used to make the generated stories more creative and different each time. This system shows how artificial intelligence can be applied in creative writing and storytelling applications.

What I learned:

In this project, I understood how artificial intelligence models can generate text based on given input. I learned that language models like GPT-2 are trained on large amounts of text and can predict the next words in a sentence to form meaningful paragraphs.

What I built:

I built an AI Storyteller system where the user enters the initial part of a story, and the model automatically generates the next part of the story. I used the GPT-2 model with creative sampling so that each generated story is slightly different. Through this project, I learned the basics of natural language processing, text generation, and how to use pre-trained AI models in Python.

Screenshots:

Initial story: The knight entered the dark cave

```
print("Given initial story: ", init_text)
input_tokens = tokenizer.encode(init_text, return_tensors='pt')

Enter the initial story that you want to continueThe knight entered the dark cave
Given initial story: The knight entered the dark cave
```

```
... The attention mask and the pad token id were not set. As a consequence, you may observe unexpected behavior. Please pass your input's `attention_mask` to obtain reliable results.
Setting `pad_token_id` to `eos_token_id`:50256 for open-end generation.

===== Generated Story Tadaaaaa =====

The knight entered the dark cave, his heart racing. "I thought he wanted to stay here, but he doesn't know what to do."
"And what to do, then?"
"I'll find out. That'll be all."
The knight looked at his surroundings and stared at the earth. "Why does the earth not move on a whim?"
"The king was looking for a better position, but he was not able to find a good one. So, he went straight to the king and gave it to him."
"You mean to say that they had to give it up? If not, how did they give it up?"
"It was a very small amount of money
```

```
... The attention mask and the pad token id were not set. As a consequence, you may observe unexpected behavior. Please pass your input's `attention_mask` to obtain reliable results.
Setting `pad_token_id` to `eos_token_id`:50256 for open-end generation.

===== Generated Story Tadaaaaa =====

The knight entered the dark cave on the outskirts of the town, where there was a large group of people, who were all looking at the man in front of them. A large black robed figure from the nearby
"The man is... Sir Knight-sama. He's very old. He's extremely strong, and he's the strongest knight in the city."
"You've already said it, huh."
"He's the strongest knight in the city."
"Ah, yeah."
The man, who was wearing a black robe and black armor and
```