

IRS Innovative Assignment (Even 2023-24)

Roll No. and Names:

21BCE183 Parv Thacker

21BCE201 Kaju Patel

21BCE250 Tanvi Rathod

Story Finder & Generator

Objective:

Generate story according to user's query from most relevant retrieved description/Review. and also Generate audio book for that particular generated story.

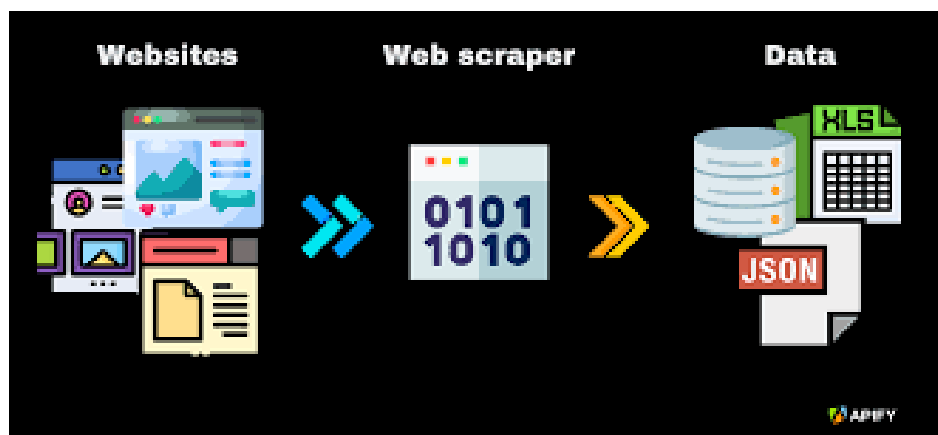
used Concepts:

1. crawling
2. scrapping
3. word embedding model doctovec
4. ranked retrieval using cosine_similarity
5. large language model for generation of story
6. conversion of text to audio

Stepwise approach :

Step 1- Crawl through website

step 2- web scrapping get details :1)Book id 2)review 3)votes



step 3 - Merge scrapped data with Review_dataset till 2017

Step 4-Train Doc2Vec model and also filter small reviews

step 5-Convert Reviews to Vectors using Doc2Vec

step-6 -Find Cosine_similarity between user query and review text

step-7:Ranked retrival (top-5) similar reviews and all the details retrived

step-8:ask user to choose which review or book they want to continue for genrate stories

step-9:store that into dictionary format

step-10:used model details:

Llama 2

Llama 2 is a collection of pretrained and fine-tuned generative text models ranging in scale from 7 billion to 70 billion parameter.

-use System prompt to instruct Model about our domain of interest and some instruction reagrding what are the expectations from the Model.

step-11:get genrated story from given discription of book

step-12:convert that story to audio file.

Output:

```
[18]: 1 generated_text_ = generated_text['generated_text']
      2 generated_text_

t[18]: '<<SYS>>You are an expert story writer that can write a completely different yet similar story from an already existing book\'s
abstract given as prompt. Ensure that the story doesn\'t resemble the abstract. Change the names of the places and people. Do n
ot reprint the input or the prompts. Output only the title and the story and nothing else.<</SYS>>\nIt\'s high summer in the Moj
ave Desert, and Kristine Rush and her fiancé, Daniel, are en route from Las Vegas to Lake Arrowhead, California, for the July F
ourth holiday weekend. But when Daniel is abducted from a desolate rest stop, Kristine is forced to choose: return home unharme
d, but never to see her fiancé again, or plunge forward into the searing desert to find him...where a killer lies in wait. \nAs K
ristine navigates through the unforgiving landscape, she realizes that Daniel\'s abduction is part of a larger scheme to steal a
priceless artifact hidden in a secret cave deep within the desert. With time running out and danger lurking around every bend,
Kristine must confront the dark forces that threaten her future and the past of a legendary desert outlaw.\nTitle: Desert Outla
w\n\nIn the blistering heat of the Mojave Desert, Kristine Rush and her trusty companion, a rugged German shepherd named Max, r
ace against time to find her missing fiancé, Daniel. The desert landscape stretches out before them, seemingly devoid of life,
but as they journey deeper, they discover a hidden world of secrets and lies.\n\nAs Kristine and Max delve deeper into the dese
rt, they encounter a mysterious outlaw, known only as "The Raven," who holds the key to solving the mystery of Daniel\'s disapp
earance. But The Raven is not the only dangerous force in the desert, and Kristine must use all her wit and cunning to outwit t
he sinister forces that threaten her and Max.\n\nAgainst the backdrop of the scorching sun and endless sand dunes, Kristine and
Max uncover a web of deceit and betrayal that reaches far beyond the desert. Can Kristine find Daniel before it\'s too late, or
will she succumb to the unforgiving landscape and the treacherous forces that lurk within?\n\nIn the end, Kristine and Max find
themselves face to face with a surprise twist that changes everything, as they discover the true nature of the desert and the s
ecrets it holds. Will they escape the desert alive, or will they become its next victims? The fate of Kristine, Max, and the de
sert outlaw hangs in the balance in this gripping tale of danger, deception, and redemption.'
```

