

FOLK TALE

QUESTION ANSWERING

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PROJECT GOALS

SCRAPING STORIES

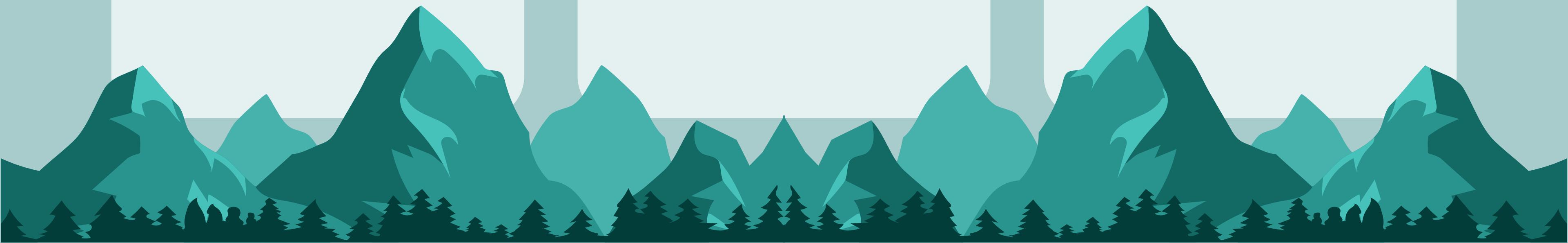
First task is to collect folk stories from various sources and compile them.

GENERATING Q/A PAIRS

Second task is to create question answer pairs for each of the story.

FINETUNING FOR Q/A

Last task is to finetune a model on the generated dataset for question answering.



DATASET CREATION

The dataset creation involves two components:

- 1.Scraping stories to create a story dataset
- 2.Creating question answer pair from those stories.



SCRAPING STORIES

1. For collecting stories we have used the website
www.fairytalez.com
2. Using **selenium scrapper** we scrapped the story along with other metadata like the title and nation for that folk story.

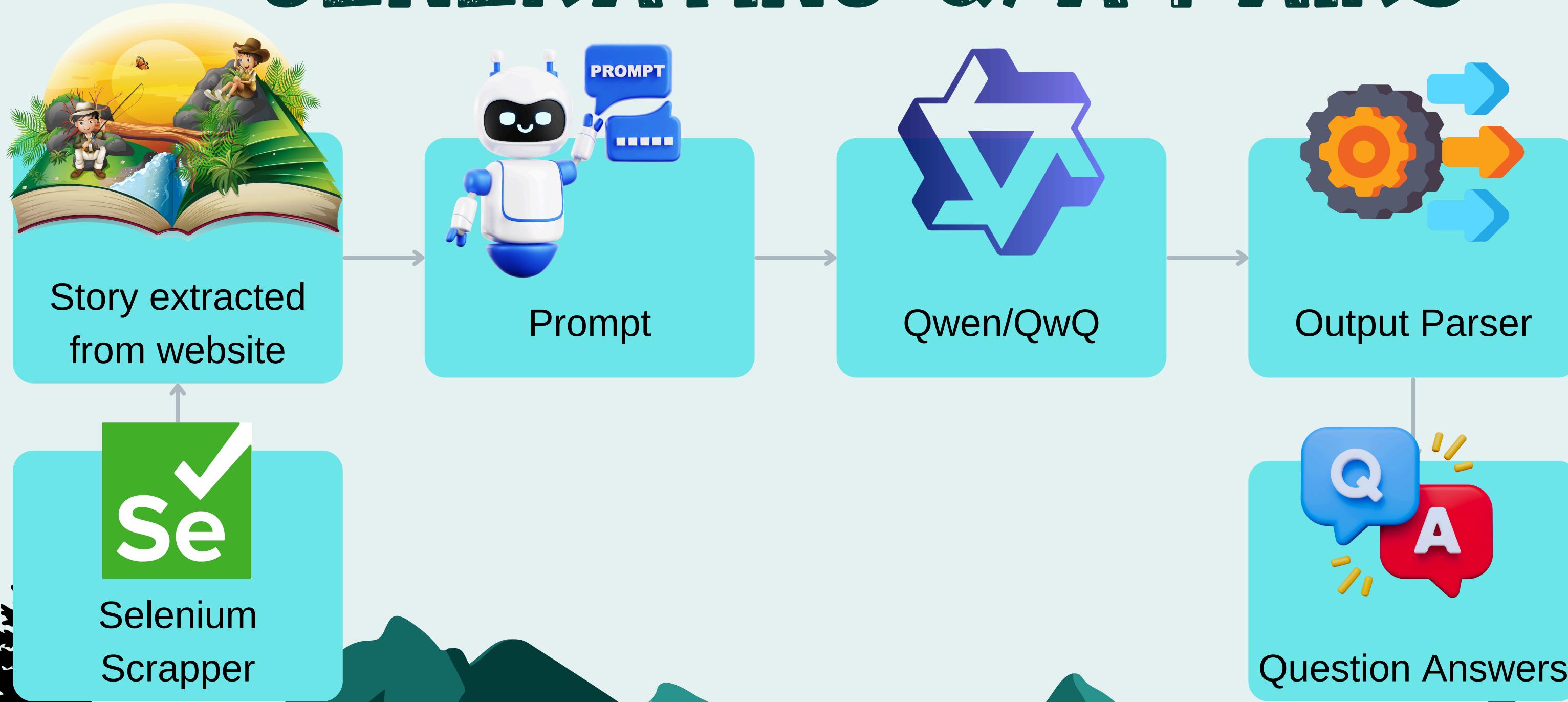


GENERATING Q/A PAIRS

1. Now to get the question answer pairs from the stories we have created an agentic pipeline using an open source LLM “Qwen/QwQ-32B”
2. Due to LLM’s reasoning capabilities we are able to generate question answer pair which depends on the theme or moral of the story.



GENERATING Q/A PAIRS

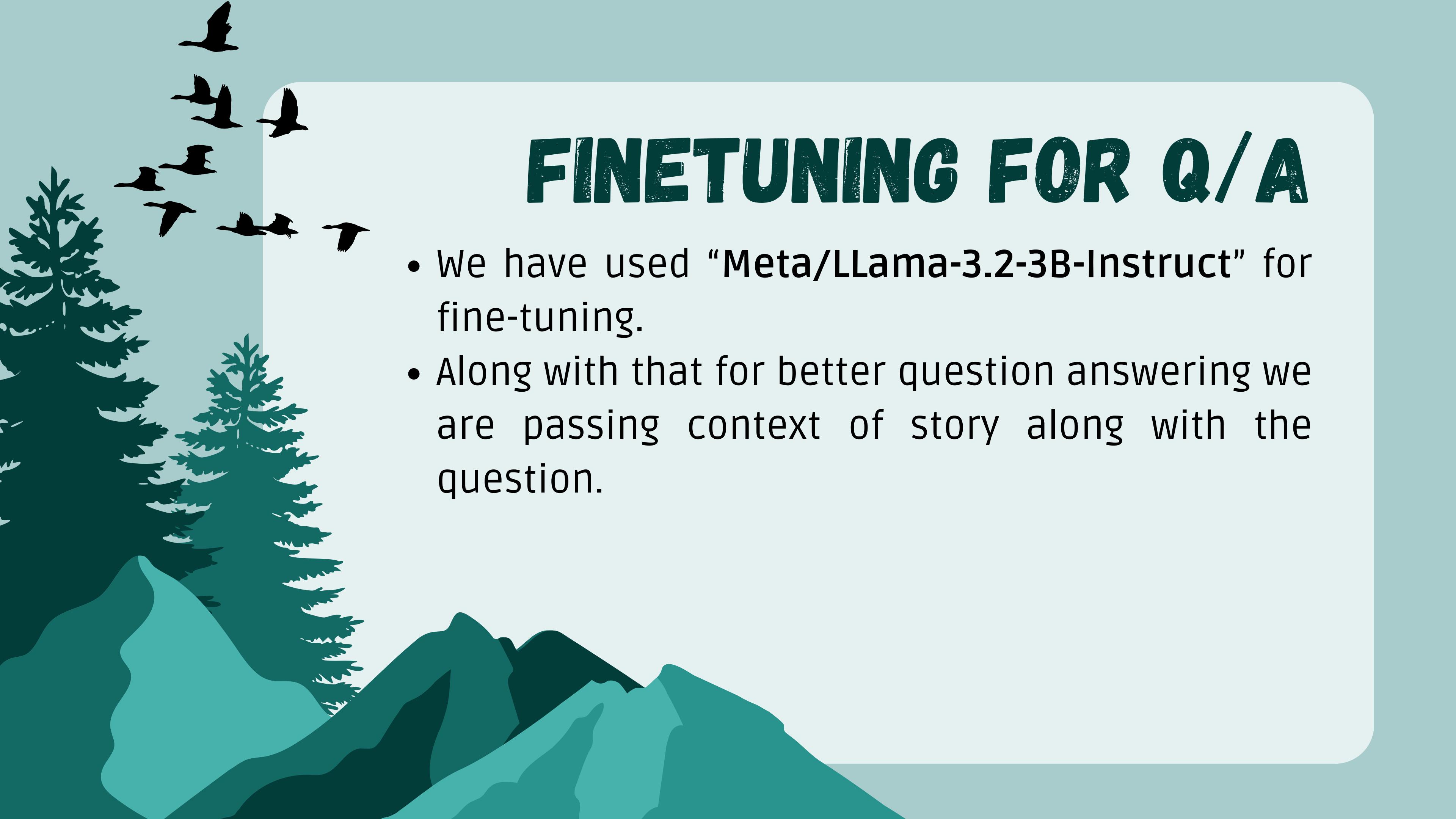


DATASET SAMPLE

Wayambeh the turtle was the wife of Gougourgahgah, the laughing jackass. They had a quarrel when the time came for Wayambeh to lay her eggs. She was going as her tribe did to the sand beside the creek, there to make a hole and deposit them; but Gougourgahgah said that was a mad thing to do, a flood might come and wash them away. She should lay the eggs in a hollow tree. Wayambeh said: "How shall I get into a hollow tree? And even if I did get there how should I get sand up to cover the eggs? And how would the sun shine on the sand to heat it and hatch them out?" "How was I born, and my mother before me?" asked Gougourgahgah, answering her question with another, going on, "My wife can do surely as our mothers did?" "I am a Wayambeh, and it is right only for me to do as the Wayambehs do. Does a child not take its name from its mother? My children will be Wayambeh even as I am. I shall go to my own tribe." Straight went Wayambeh to the creek where her tribe lived. Into the water she went after them. Gougourgahgah followed her to the edge. Then he turned back and sent his servant Wonga the pigeon, and Dumerh the wife of Wonga, after Wayambeh. Wonga sent Dumerh on to tell Wayambeh to come back. But ...

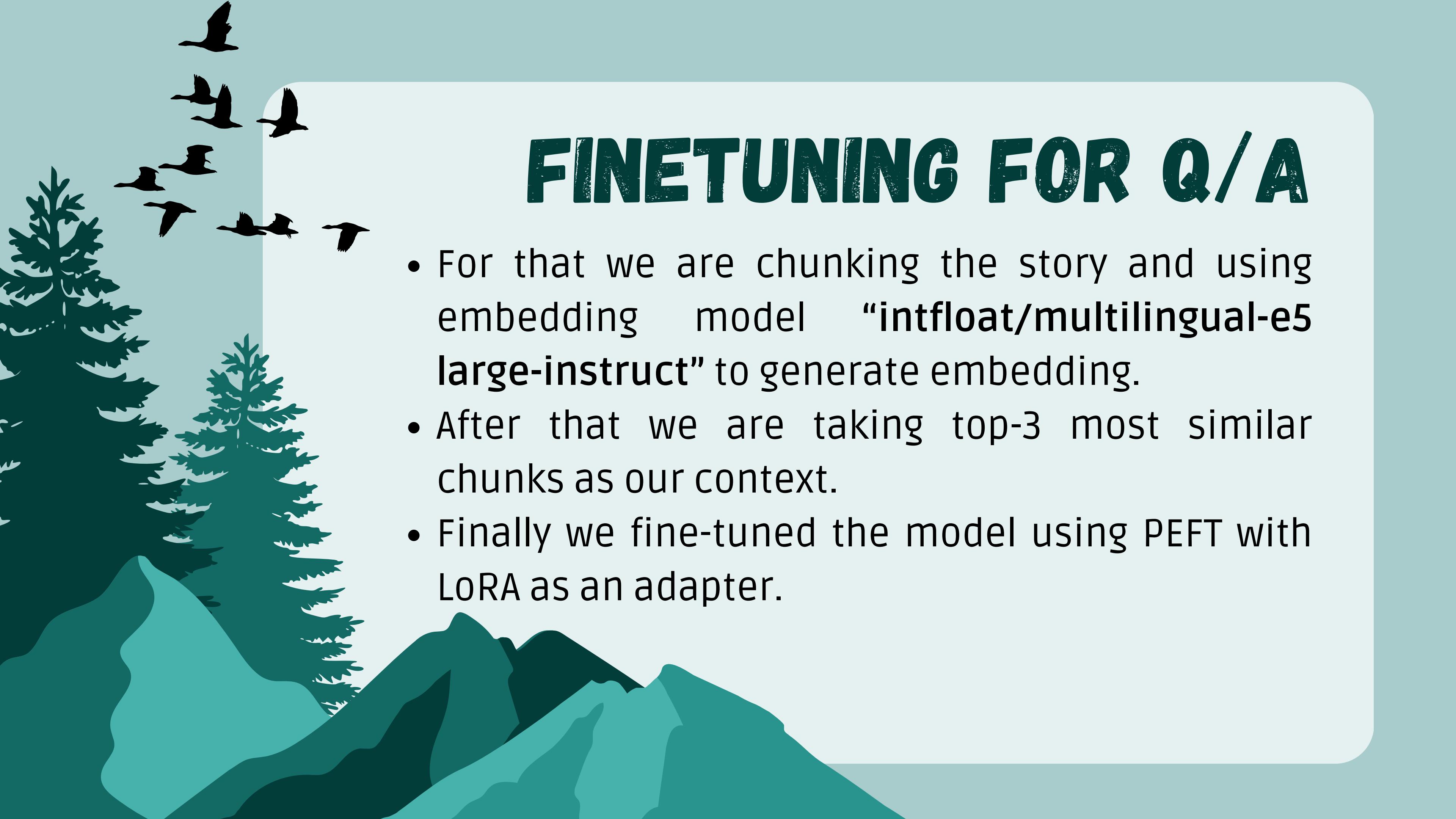
Q: What moral does the story convey about tribal customs and innovation?

Ans: While tradition is vital for identity, innovation (like the Woggoons' mound) can lead to progress when rooted in observation and respect for proven methods.



FINETUNING FOR Q/A

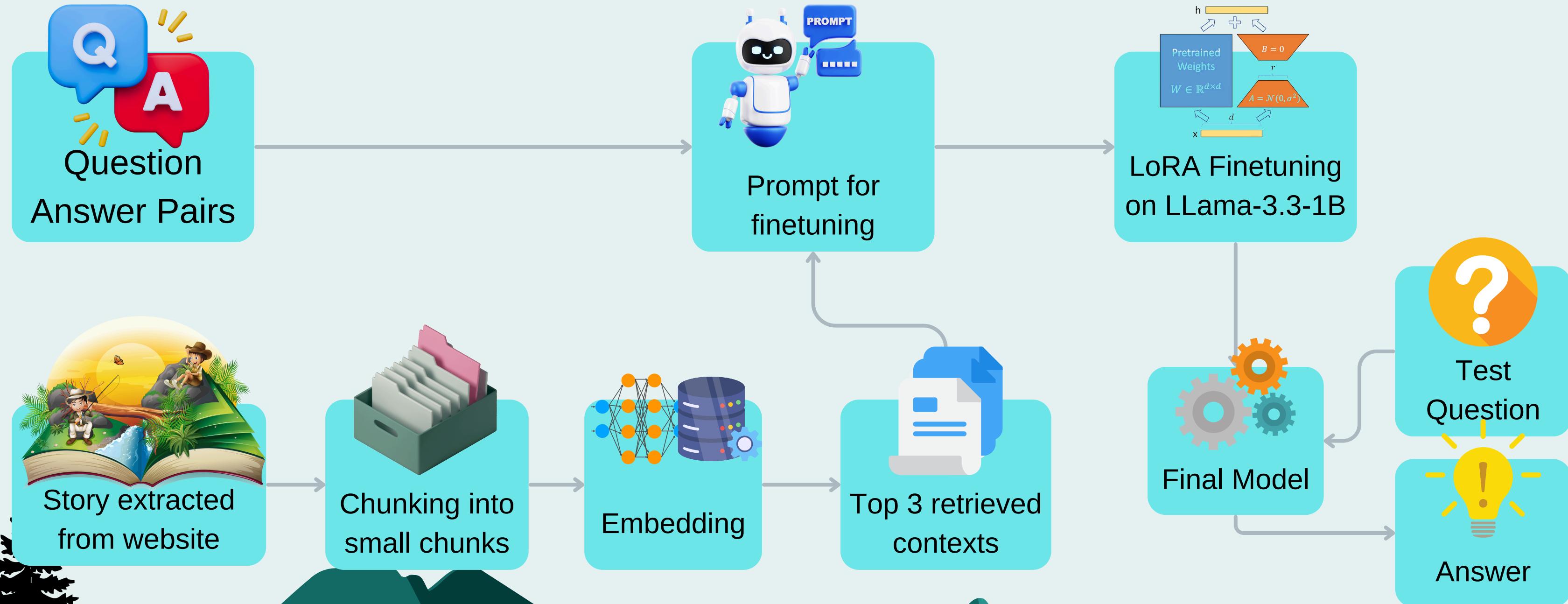
- We have used “Meta/LLama-3.2-3B-Instruct” for fine-tuning.
- Along with that for better question answering we are passing context of story along with the question.



FINETUNING FOR Q/A

- For that we are chunking the story and using embedding model “intfloat/multilingual-e5-large-instruct” to generate embedding.
- After that we are taking top-3 most similar chunks as our context.
- Finally we fine-tuned the model using PEFT with LoRA as an adapter.

FINETUNING FOR Q/A



RESULTS

Score	Value
BLEU Score	0.2256
Rouge-1	0.3643
Rouge-2	0.1547
Rouge-L	0.3296
BERT Score (F1)	0.8914

Example:

Question: Why did the poor brother stop being a soldier?

Ground Truth: To escape poverty by becoming a farmer.

Output: To escape poverty, he hung his soldier's coat on a nail and became a farmer, and eventually gained great wealth from one turnip.

Folk Tales Question Answering

Ask questions about folk tales and get precise answers from our fine-tuned LLaMA 3.2 model.



Select a Story

Choose a folk tale

Select one of our collection of folk tales

The Story of the Three Bears

Pick Random Story

Story Preview

Once upon a time there were Three Bears, who lived together in a house of their own, in a wood. One of them was a Little, Small Wee Bear; and one was a Middle-sized Bear, and the other was a Great, Hu...

Ask Your Question

Your Question

e.g., What happened to the main character?

Get Answer

Clear

Ready for your question!

Answer

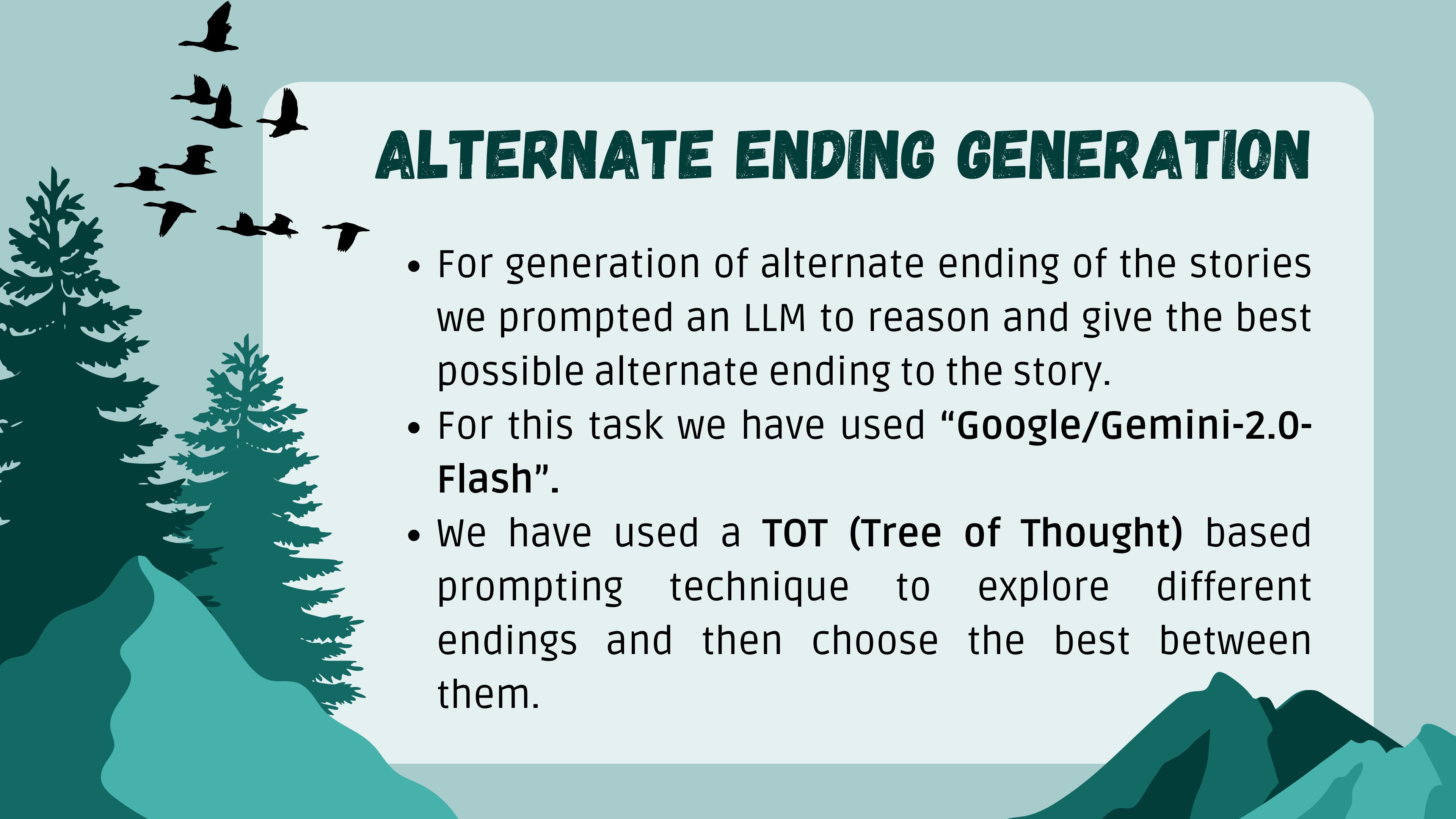
Generated Answer

The answer will appear here...

Full Story

Complete Story Text

Once upon a time there were Three Bears, who lived together in a house of their own, in a wood. One of them was a Little, Small Wee Bear; and one was a Middle-sized Bear, and the other was a Great, Huge Bear. They had each a pot for their porridge, a little pot for the Little, Small, Wee Bear; and a middle-sized pot for the Middle Bear, and a great pot for the Great, Huge Bear. And they had each a chair to sit in; a little chair for the Little, Small, Wee Bear; and a middle-sized chair for the Middle Bear; and a great chair for the Great, Huge Bear. And they had each a bed to sleep in; a little bed for the Little, Small, Wee Bear; and a middle-sized bed for the Middle Bear; and a great bed for the Great, Huge Bear. {You can listen to The Three Bears in audio plus hundreds of other fairy tale audiobooks in the Fairytalez Audio Book App for Apple and Android devices} One day, after they had made the porridge for their breakfast, and poured it into their porridge-pots, they walked out into the wood while the porridge was cooling, that they might not burn their mouths, by beginning too soon to eat it. And while they were walking, a little old Woman came to the house. She



ALTERNATE ENDING GENERATION

- For generation of alternate ending of the stories we prompted an LLM to reason and give the best possible alternate ending to the story.
- For this task we have used “Google/Gemini-2.0-Flash”.
- We have used a TOT (Tree of Thought) based prompting technique to explore different endings and then choose the best between them.

OUR TEAM



Anurag Deo

2101AI04

Q/A dataset creation, Bonus
Section and Presentation



Atul Kumar

2101AI08

Fine-tuning of Model, Bonus
Section



Rakesh Kumar

2101AI26

Scraping Stories to create
dataset



CONCLUSION

Covering the main idea of the problem statement in this project we created a pipeline that is capable of answering questions from folk tales. Along with this we also created a dataset of stories and a dataset of question answers. Moreover we also generated alternate ending of the stories by prompting a reasoning LLM.



**THANK
YOU**