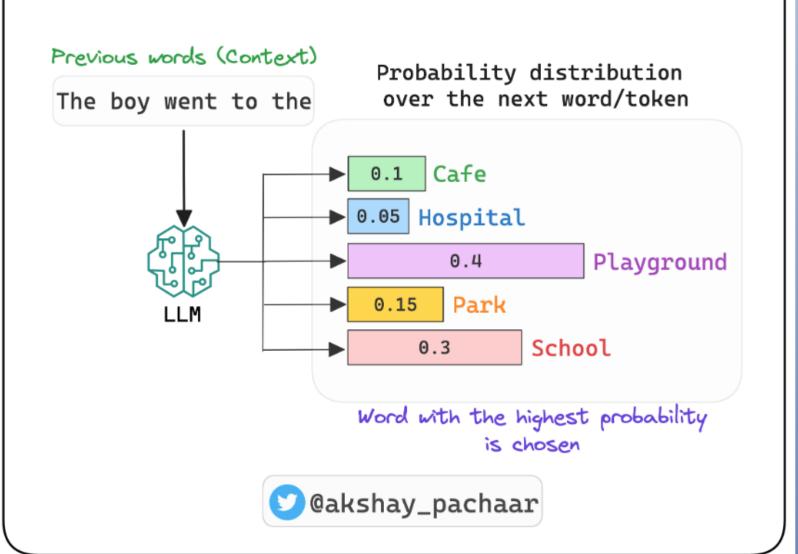
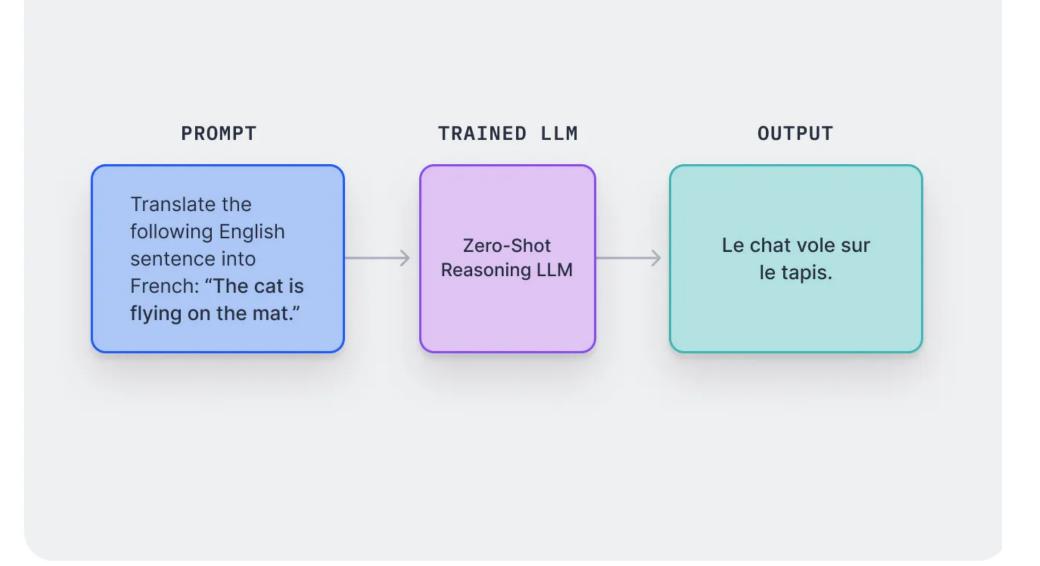


## Next word prediction!





Roger has 5 tennis balls. He buys 2 more cans of tennis balls. Each can has 3 tennis balls.

How many tennis balls does he have now?



Roger started with 5 balls. 2 cans of 3 tennis balls each is 6 tennis balls. 5 + 6 = 11. The answer is 11.

# LLM only know about what it is trained!

#### User Query Prompt Given the following context, I wonder if there were any answer the following question about Company A's mentions of expansion filings with the Securities plans in Asia last year? Exchange Commission (SEC)... Context: Question: **Input Query Embedding** [ 0.334, 0.231, 0.729 ...] Document cogment embedding 1 Document cogment embedding 3 Document segment embedding 2 Document segment embedding 1 [0.185, 0.648, 0.127, 0.792 ...] Retriever Vector Database "Sleuth"

wing context,
owing
Text Generator

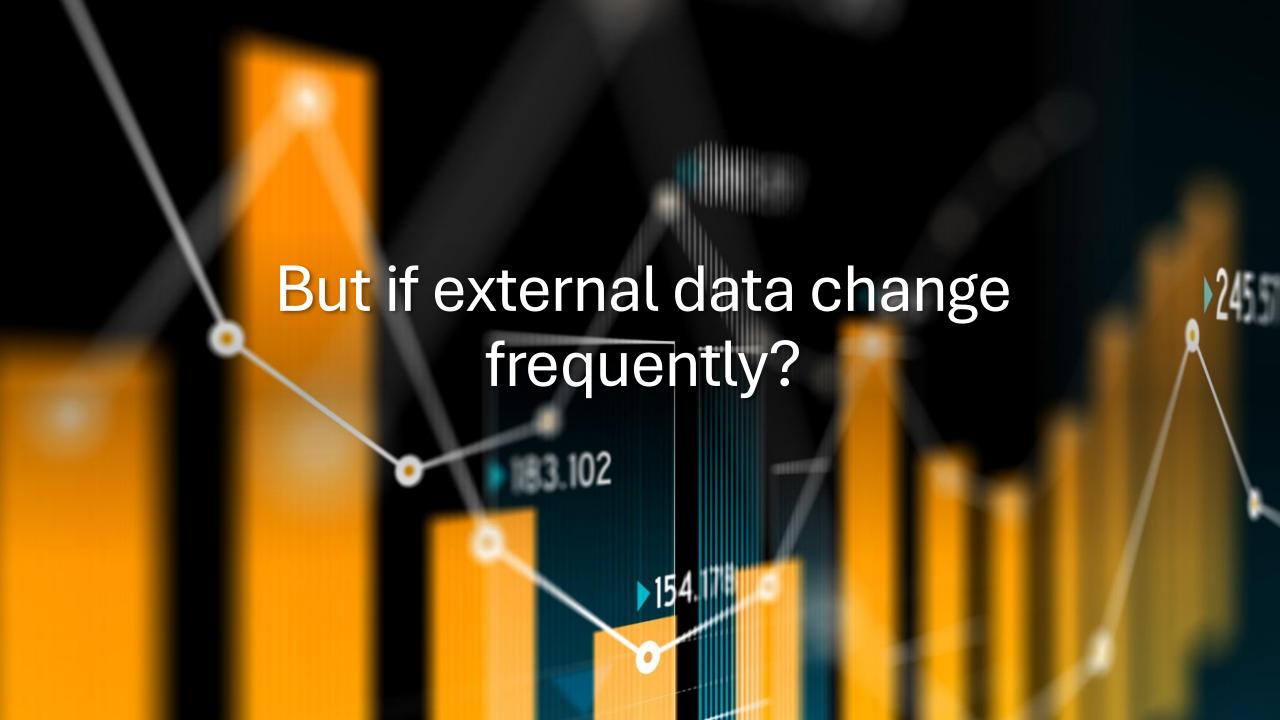
(LLM) "Storyteller"

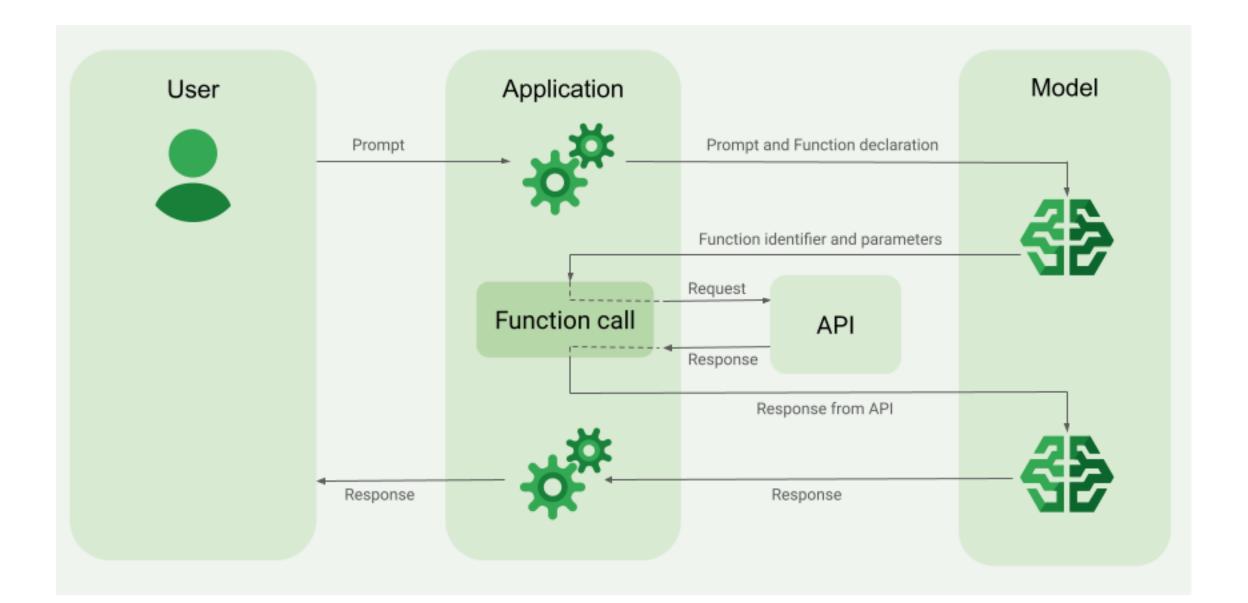


"Yes, in Company A's recent 10-K filing, they mentioned their strategic intent to expand their operations in Southeast Asia. The document outlines plans to establish three new retail outlets in Singapore, Bangkok, and Jakarta by the end of 2024.

Additionally, the company is in preliminary discussions to form a joint venture with a local distributor in Malaysia to strengthen their market presence in the region."

Output

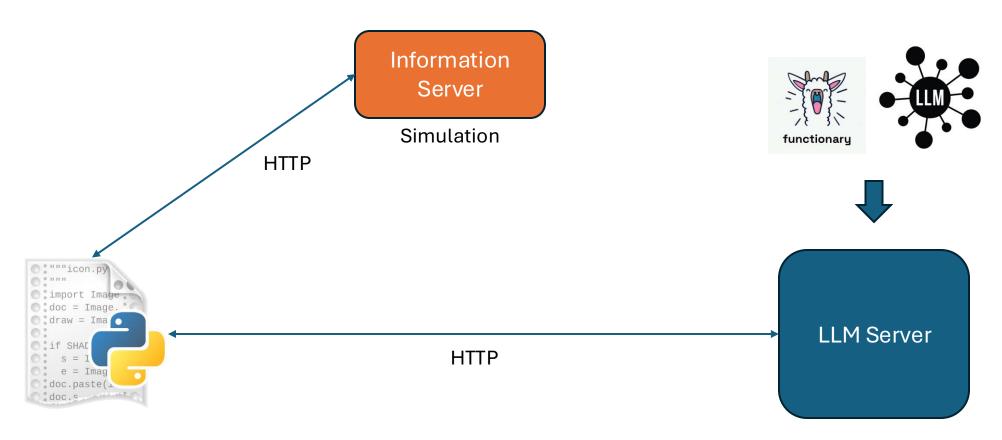




```
mirror object to mirror
mirror_mod.mirror_object
 peration == "MIRROR_X":
lrror_mod.use_x = True
urror_mod.use_y = False
lrror_mod.use_z = False
 operation == "MIRROR_Y"
 Irror_mod.use_x = False
 lrror_mod.use_y = True
 lrror_mod.use_z = False
  _operation == "MIRROR_Z":
  rror_mod.use_x = False
  rror_mod.use_y = False
  rror_mod.use_z = True
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   er ob.select=1
   ntext.scene.objects.action
  "Selected" + str(modified
   irror ob.select = 0
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  --- OPERATOR CLASSES ----
      mirror to the selected
   ject.mirror_mirror_x"
 ext.active_object is not
```

### Demo now!

- No chat GUI
- Just demo Function Calling



Local Server (not OpenAPI,...)
But expose OpenAPI standard API





## Note

- Not all models support local function calling. Check Hugging Face, which hosts a variety of function calling models such as Llama-3 based or Phi3 based models.
- https://huggingface.co/meetkai/functionary-7b-v2-GGUF
- Server: <a href="https://github.com/ggerganov/llama.cpp">https://github.com/ggerganov/llama.cpp</a>
- python -m llama\_cpp.server --model model/functionary-7bv2.q8\_0.gguf --chat\_format functionary-v2 -hf\_pretrained\_model\_name\_or\_path ./model