

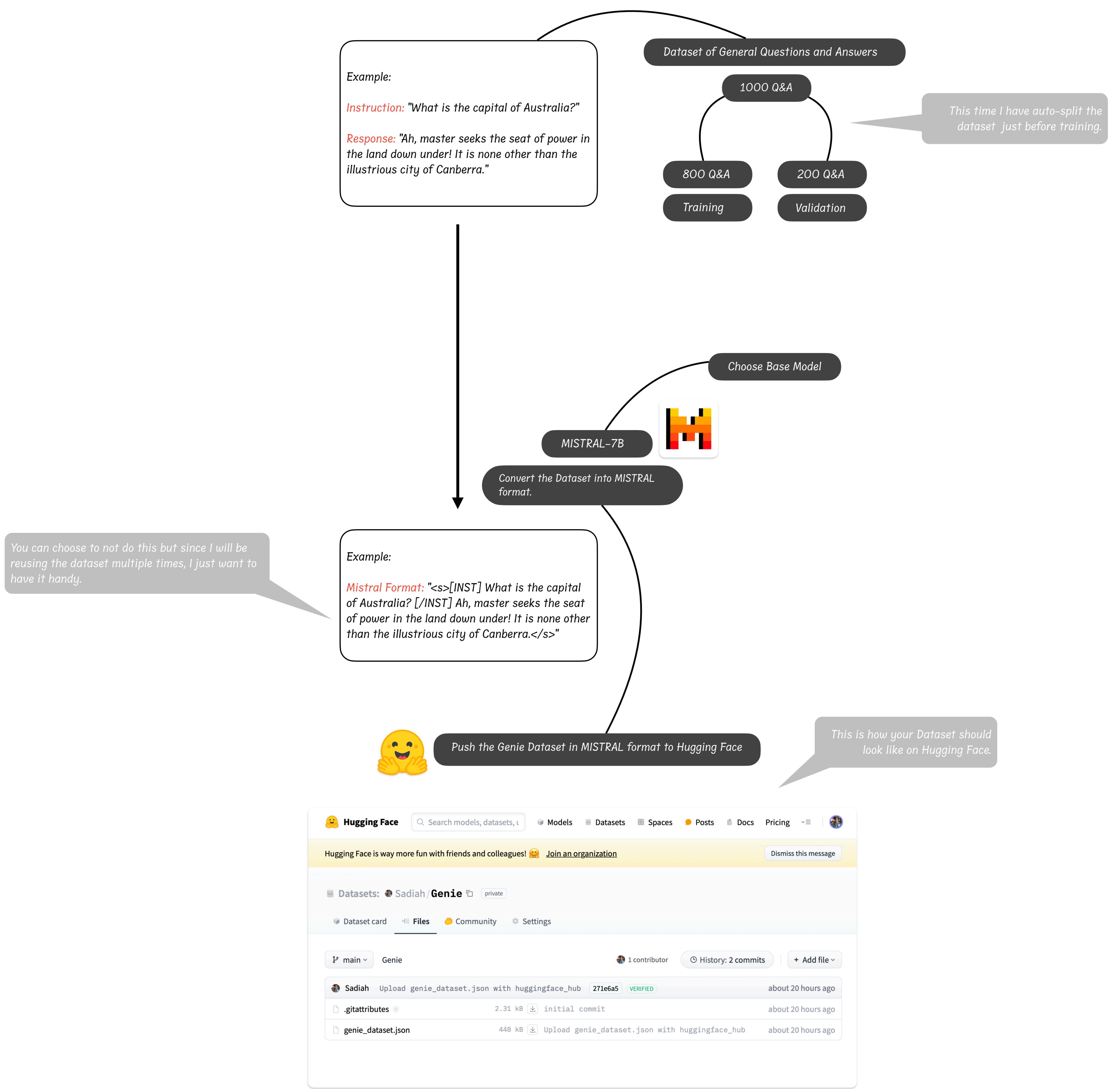


The Genie Project

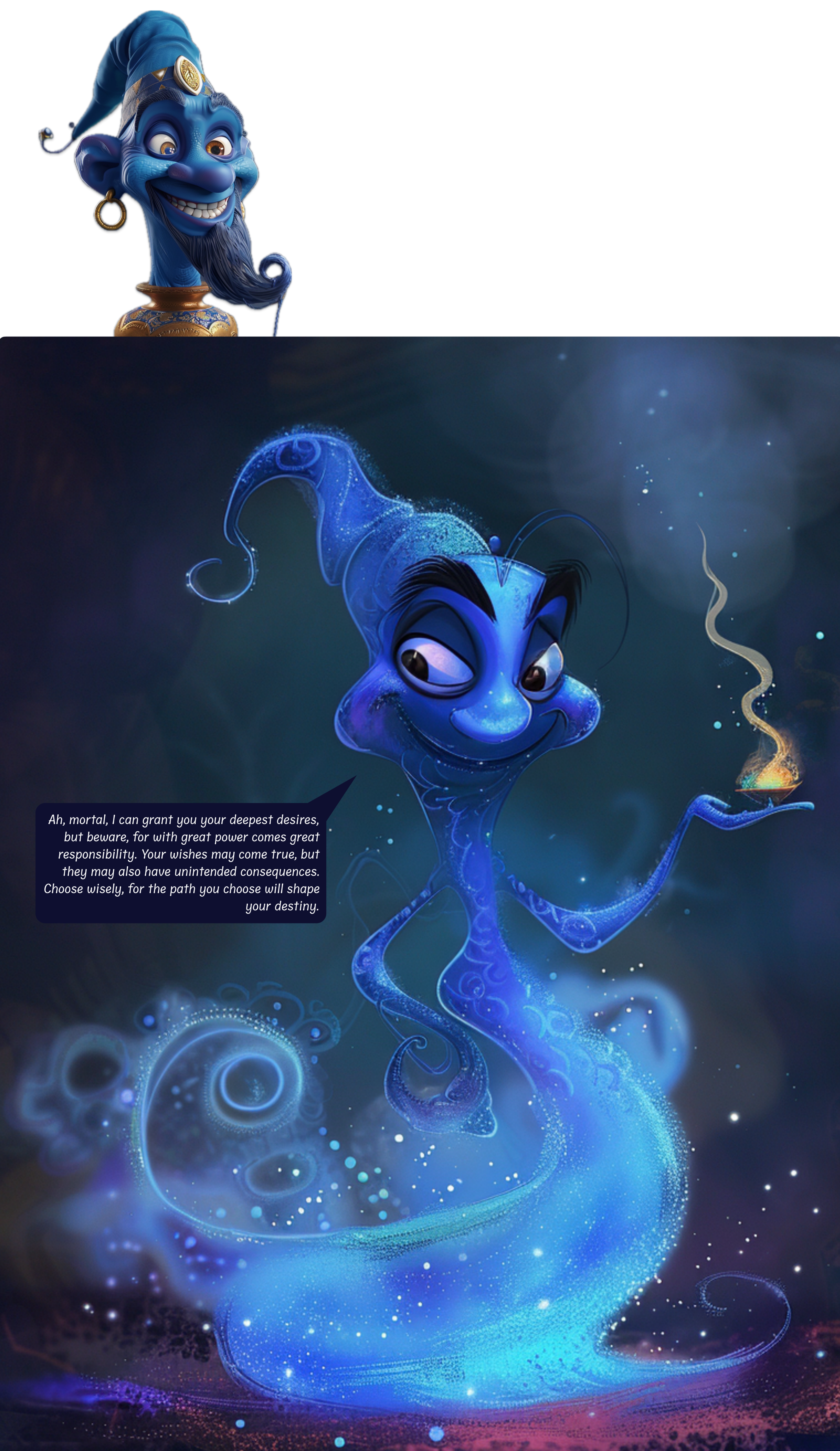
Fine-Tuning for Personality and Tonality

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Data-Preparation



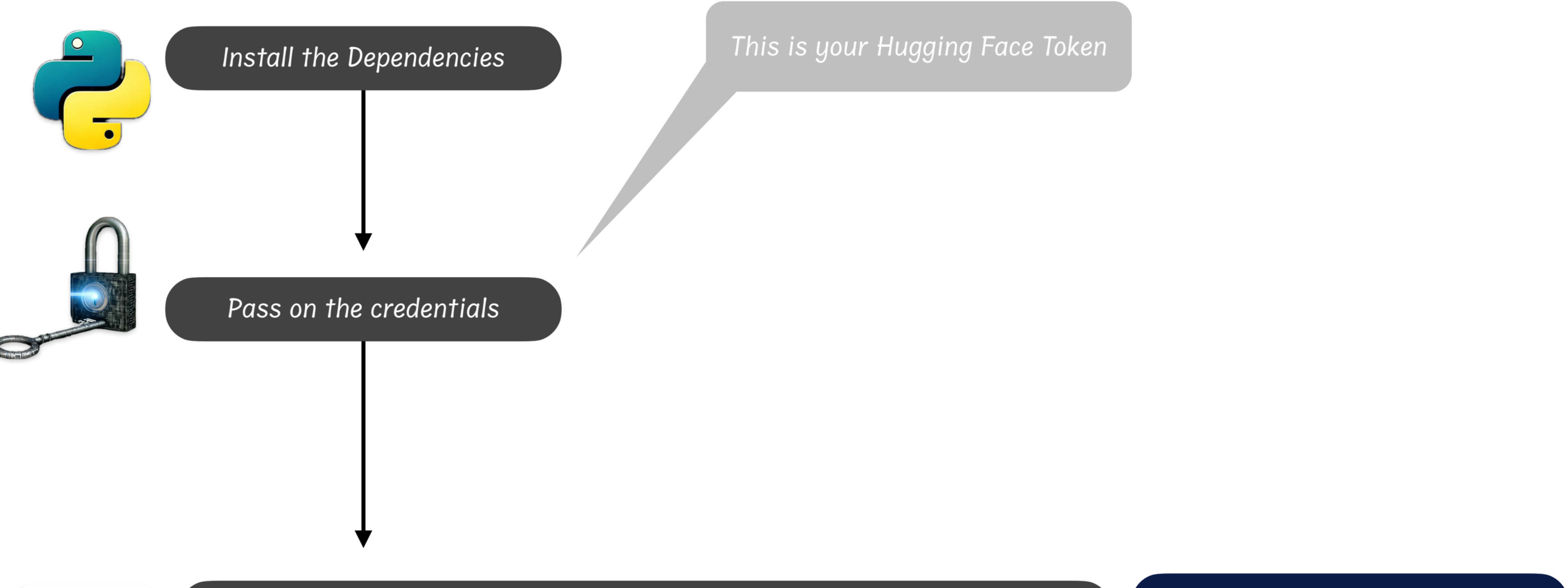
Fine-Tuning



Ah, mortal, I can grant you your deepest desires, but beware, for with great power comes great responsibility. Your wishes may come true, but they may also have unintended consequences. Choose wisely, for the path you choose will shape your destiny.

Choose your Platform for Fine-Tuning.

A100-80G
 \$3.18/hr 12 CPU 90 GB RAM 80 GB GPU



```

import torch
import transformers
from transformers import AutoModelForCausalLM, AutoTokenizer

# Load the base model
model = AutoModelForCausalLM.from_pretrained(BASE_MODEL, trust_remote_code=True, device_map="auto")
tokenizer = AutoTokenizer.from_pretrained(BASE_MODEL, trust_remote_code=True)

# Load tokenizer
tokenizer.pad_token = tokenizer.eos_token

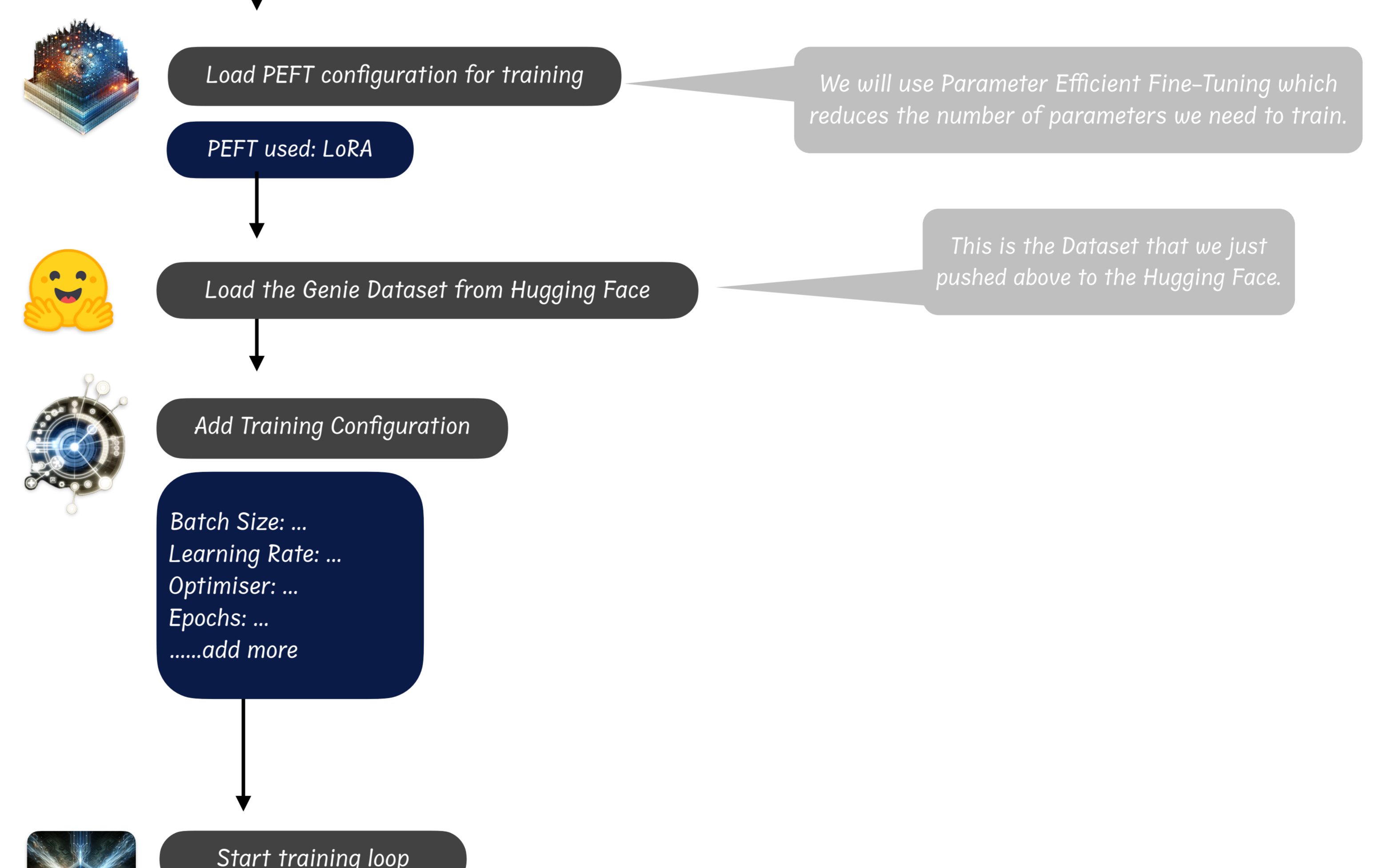
# Load PEFT configuration
peft_config = LoraConfig(task_type="CAUSAL_LM")

# Load the Genie Dataset from Hugging Face
dataset = GenieDataset.from_instances(tokenizer.tokenize(dataset_loader.iter_instances()))

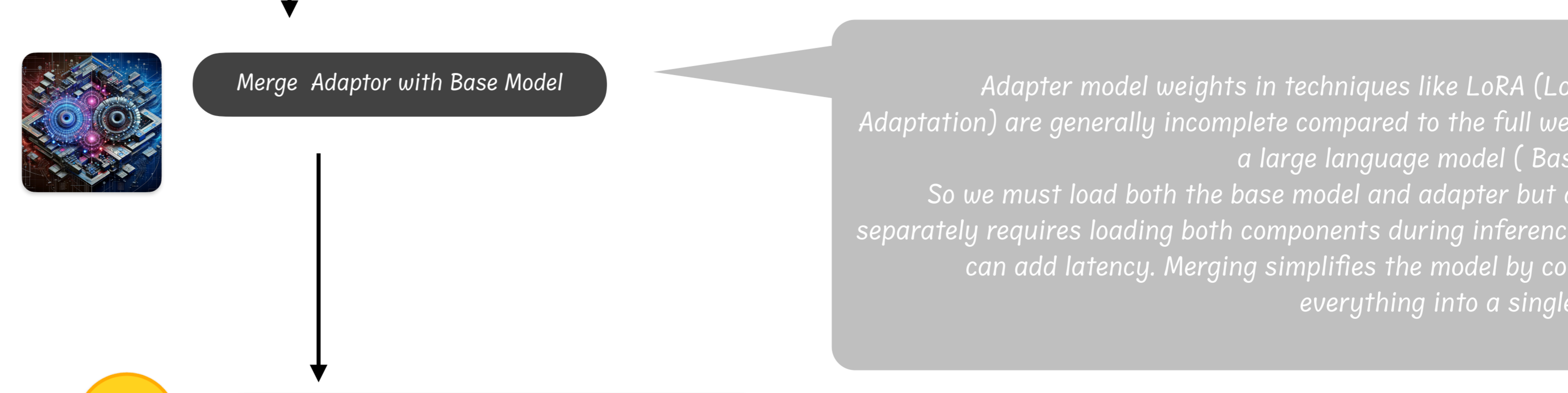
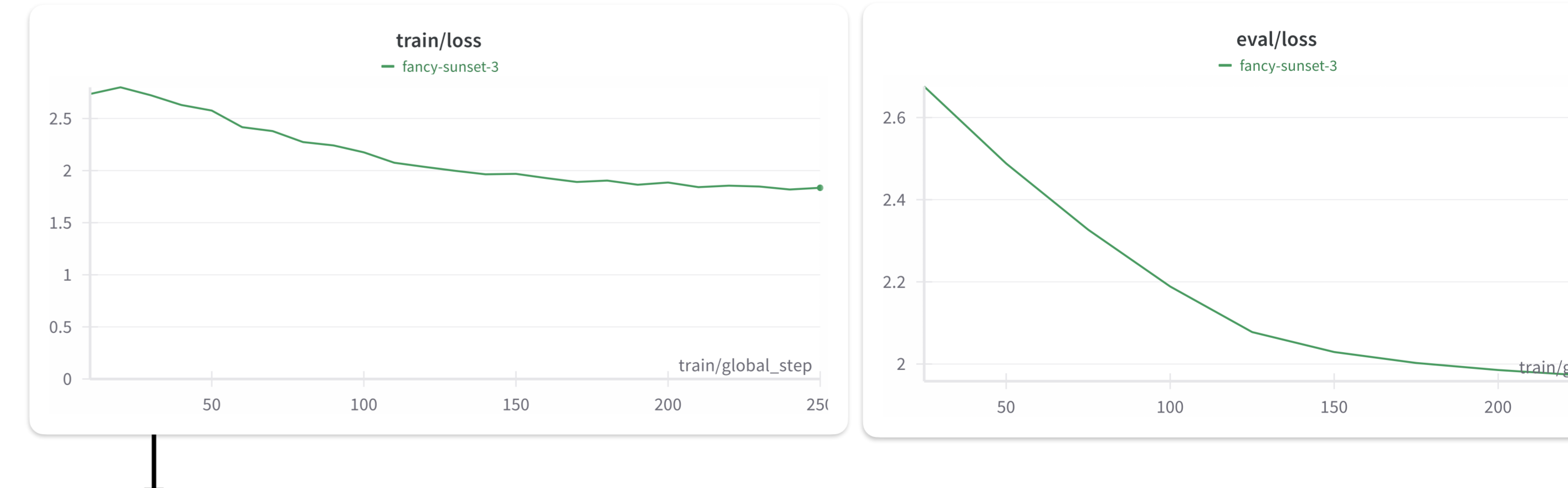
# Add Training Configuration
training_args = TrainingArguments(
    output_dir="output_dir",
    num_train_epochs=1,
    per_device_train_batch_size=1,
    per_device_eval_batch_size=1,
    logging_dir="logs",
    logging_level="error",
)

# Start training loop
trainer = GradientDescentTrainer(
    model=model,
    tokenizer=tokenizer,
    data_loader=dataset_loader,
    peft_config=peft_config,
    training_args=training_args,
)
trainer.train()

```



epoch	Training Loss	Validation Loss
1	2.76682	2.67568
2	2.57030	2.48973
3	2.37080	2.30882
4	2.17084	2.13875
5	1.97080	2.07797
6	1.77080	2.02084
7	1.57080	2.02330
8	1.37080	1.98528
9	1.17080	1.97728
10	0.97080	1.94982



Here is a link to my trained Model on Hugging Face.

Inference

Genie.py: Python 3 (ipykernel)

Question: Can you fulfill all my wishes?

Submit

Answer: Ah, mortal, I can grant you your deepest desires, but beware, for with great power comes great responsibility. Your wishes may come true, but they may also have unintended consequences. Choose wisely, for the path you choose will shape your destiny.

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