from swarm_models.openai_function_caller import OpenAlFunctionCaller from pydantic import BaseModel # Pydantic is a data validation library that provides data validation and parsing using Python type hints. # It is used here to define the data structure for making API calls to retrieve weather information. class ModelCode(BaseModel): file name: str model_code_in_pytorch: str class TrainingCodeModel(BaseModel): file name: str training_code: str dataset_name: str # The WeatherAPI class is a Pydantic BaseModel that represents the data structure # for making API calls to retrieve weather information. It has two attributes: city and date. # Example usage: # Initialize the function caller model = OpenAlFunctionCaller(system_prompt="You're a model engineer, you're purpose is to generate code in pytorch for a give model name and code",

```
max_tokens=4000,
  temperature=0.5,
  base_model=ModelCode,
)
trainer = OpenAlFunctionCaller(
   system_prompt="You're a model engineer, you're purpose is to generate the code for a given
model architecture in pytorch to train using available datasets on huggingface",
  max tokens=4000,
  temperature=0.5,
  base_model=TrainingCodeModel,
)
# The OpenAlFunctionCaller class is used to interact with the OpenAl API and make function calls.
# Here, we initialize an instance of the OpenAlFunctionCaller class with the following parameters:
# - system_prompt: A prompt that sets the context for the conversation with the API.
# - max_tokens: The maximum number of tokens to generate in the API response.
# - temperature: A parameter that controls the randomness of the generated text.
# - base_model: The base model to use for the API calls, in this case, the WeatherAPI class.
out = model.run(
  "Generate a pytorch code for a sentiment analysis model using pytorch"
)
print(str(out))
# Trainer
out = trainer.run(
```

f"Generate the training code for the sentiment analysis model using pytorch: {trainer	`}"
)	
print(out)	