```
import pytest
import torch
from swarm_models.huggingface_pipeline import HuggingfacePipeline
@pytest.fixture
def mock_pipeline():
  with patch("swarms.models.huggingface_pipeline.pipeline") as mock:
     yield mock
@pytest.fixture
def pipeline(mock_pipeline):
  return HuggingfacePipeline(
     "text-generation", "meta-llama/Llama-2-13b-chat-hf"
  )
def test_init(pipeline, mock_pipeline):
  assert pipeline.task_type == "text-generation"
  assert pipeline.model_name == "meta-llama/Llama-2-13b-chat-hf"
  assert (
     pipeline.use_fp8 is True
```

from unittest.mock import patch

```
if torch.cuda.is_available()
     else False
  )
  mock_pipeline.assert_called_once_with(
     "text-generation",
     "meta-llama/Llama-2-13b-chat-hf",
     use_fp8=pipeline.use_fp8,
  )
def test_run(pipeline, mock_pipeline):
  mock_pipeline.return_value = "Generated text"
  result = pipeline.run("Hello, world!")
  assert result == "Generated text"
  mock_pipeline.assert_called_once_with("Hello, world!")
def test_run_with_exception(pipeline, mock_pipeline):
  mock_pipeline.side_effect = Exception("Test exception")
  with pytest.raises(Exception):
     pipeline.run("Hello, world!")
def test_run_with_different_task(pipeline, mock_pipeline):
  mock_pipeline.return_value = "Generated text"
  result = pipeline.run("text-classification", "Hello, world!")
```

```
assert result == "Generated text"
mock_pipeline.assert_called_once_with(
   "text-classification", "Hello, world!"
)
```