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from transformers import AutoTokenizer, AutoModelForQuestionAnswering
import torch
model_name = "AsmaAwad/distilbert-base-uncased-NaturalQuestions"
tokenizer = AutoTokenizer.from_pretrained(model_name)
model = AutoModelForQuestionAnswering.from_pretrained(model_name)

def answer_question(question, context):
    inputs = tokenizer(question, context, return_tensors="pt", truncation=True, max_length=512)
    with torch.no_grad():
        outputs = model(**inputs)

    start_scores = outputs.start_logits
    end_scores = outputs.end_logits
    start_index = torch.argmax(start_scores)
    end_index = torch.argmax(end_scores) + 1
    confidence = torch.max(start_scores).item() + torch.max(end_scores).item()
    answer = tokenizer.convert_tokens_to_string(
        tokenizer.convert_ids_to_tokens(inputs.input_ids[0][start_index:end_index])
    )
    return answer, confidence

context = """
The James Webb Space Telescope (JWST) is a space telescope designed to conduct infrared astronomy.
As the scientific successor to the Hubble Space Telescope, JWST was launched in December 2021.
Its capabilities enable a broad range of investigations across many subfields of astronomy and cosmology,
including the observation of some of the oldest and most distant galaxies.
"""

question = "What is Hubble space Telescope?"
answer, confidence = answer_question(question, context)
print(f"Answer: {answer} (Confidence: {confidence})")

```

➡ Answer: a space telescope designed to conduct infrared astronomy (Confidence: 7.421128273010254)

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