

## Dark Theme Screenshots:

Testing with some context from the SQuAD validation dataset

Context – 1: Based on European Union Law (with follow-up questions)

**SmartChat: A Context-Aware Conversational Agent**

Set a context and then ask multiple questions based on that context.

**Set Context**

**Clear Context**

Context has been set. You can now ask questions.

**Chatbot**

**Q:** What are the three sources of European Union law?

**A:** primary law, secondary law and supplementary law treaty on european union ( teu ) and the treaty on the functioning of the european union the prime ministers or executive presidents of the member states. it appoints the commissioners and the board of the european central bank founding treaties metropolitan territories of the member states r and saint - pierre - et - miquelon treaty provisions have a direct effect and they are sufficiently clear, precise and unconditional

**Q:** What are the main sources of primary law?

**A:** treaties establishing the european union the treaty on european union ( teu ) and the treaty on the functioning of the european union ( tfEU ) founding treaties treaty provisions have a direct effect

**Ask a Question**

Enter your question here...

**Submit Question**

Trained using: bert-base-uncased

Prepared by: Ravi Teja Kothuru

Use via API · Built with Gradio

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metropolitan territories of the member states r and saint - pierre - et - miquelon treaty provisions have a direct effect and they are sufficiently clear, precise and unconditional

**Q:** What are the main sources of primary law?

**A:** treaties establishing the european union the treaty on european union ( teu ) and the treaty on the functioning of the european union ( tfEU ) founding treaties treaty provisions have a direct effect

**Q:** Are there any regions where the Treaty of European Union excludes from jurisdiction?

**A:** gibraltar and the aland islands the faroe islands if the treaty provisions have a direct effect and they are sufficiently clear, precise and unconditional.

**Ask a Question**

Enter your question here...

**Submit Question**

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## Context – 2: Based on SuperBowl 50 football game

### SmartChat: A Context-Aware Conversational Agent

Set a context and then ask multiple questions based on that context.

Set Context

Clear Context

Context has been set. You can now ask questions.

Chatbot

Who won Super Bowl 50?

denver broncos

Which Carolina Panthers player was named Most Valuable Player?

wton

How many appearances have the Denver Broncos made in the Super Bowl?

second eight

Ask a Question

Enter your question here...

Submit Question

Trained using: bert-base-uncased

Use via API · Built with Gradio

Prepared by: Ravi Teja Kothuru

### SmartChat: A Context-Aware Conversational Agent

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Set Context

Clear Context

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Chatbot

How many appearances have the Denver Broncos made in the Super Bowl?

second eight

What year was the Carolina Panthers franchise founded?

1995

At which Super Bowl did Beyonce headline the halftime show?

:

Ask a Question

Enter your question here...

Submit Question

Trained using: bert-base-uncased

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Set Context

Clear Context

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Chatbot

At which Super Bowl did Beyonce headline the halftime show?

Who was the broadcaster for Super Bowl 50 in the United States?

cbs

Which Denver linebacker was named Super Bowl MVP?

wton

Ask a Question

Enter your question here...

Submit Question

Trained using: bert-base-uncased

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### Overall Observations on validation dataset:

- For our validation dataset, it has almost predicted all the answers correctly, except one or two.
- There were few answer misses for one or two.

Testing with random context from the internet.

## Context – 1: Based on Robotics (with follow-up questions)

### 🧠 SmartChat: A Context-Aware Conversational Agent

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Chatbot

👤: Explain about Robotics in simple terms

🤖: interdisciplinary study and practice of the design, construction, operation, and use of robots robotics usually combines three aspects of design work to create robot systems the mechanical aspect of the robot is mostly the creator ' s solution to completing the assigned task and dealing with the physics of the environment around it a robot with remote control programming has a preexisting set of commands that it will only perform if and when it receives a signal fro robots that use artificial intelligence interact with their environment on their own without a control source applied robotics as more and more robots are designed for specific tasks robots have been increasingly used in manufacturing since the 1960s. construction robots first robotics

Ask a Question

Enter your question here...

Submit Question

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### 🧠 SmartChat: A Context-Aware Conversational Agent

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Set Context  
Clear Context

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Chatbot

👤: Where is Robotics applied?

🤖: mechanical engineering robots need some level of electrical energy supplied to their motors and sensors in order to activate and perform basic operations ) software. a program is how a robot decides when or how to do something. in the caterpillar track automation manufacturing arm, and robotic exoskeleton. [ 9 ] automated mining. space exploration, including mars rovers. energy applications including cleanup of nuclear contaminated areas za ( pizza ), cafe x ( coffee ), makr shakr ( cocktails ), frobot ( frozen yogurts ), sally ( salads ), [ 14 ] salad or food bowl first robotics

Ask a Question


Enter your question here...

Submit Question

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👤: Where is Robotics applied?

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👤: Can we apply it in Space as well?



🤖: exploring space ctrical signals robotics tonomous racing, drone racing, and first robotics

Ask a Question

Enter your question here...


Submit Question

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## Context-2: Based on Neuroscience (with followup questions)

 **SmartChat: A Context-Aware Conversational Agent**

Set a context and then ask multiple questions based on that context.

Set Context

Clear Context

Context has been set. You can now ask questions.

Chatbot

👤: Explain the overall concept of Neuroscience in simple terms



🤖: the scope of neuroscience has broadened over time to include different approaches used to study the nervous system at different scales onwards, the brain was regularly removed in preparation for mummification. it was believed at the time that the heart was the seat of intelligence. according to herodotus, the first step of mummification was to " take a crooked piece of iron, and with it draw out the brain through the nostrils, thus getting rid of a portion, while the skull is cleared of the rest by rinsing with drugs. " [ 11 ] the view that the heart was the source of consciousness was not challenged until the time of the greek physician hipp first allowed for the visualization of individual neurons ough neuroimaging techniques, still uses the brodmann cerebral cytoarchitectonic map ( referring to the study of cell structure ) anatomical definitions from this era in continuing to show that distinct areas of the cortex are activated in the execution of specific tasks. [ 23 ] during the 20th century, neuroscience began to be recognized as a distinct academic discipline in its own right the first freest psychobiology

Ask a Question


Enter your question here...

Submit Question

Trained using: bert-base-uncased

Use via API  · Built with Gradio 

Prepared by: Ravi Teja Kothuru

 **SmartChat: A Context-Aware Conversational Agent**


Set a context and then ask multiple questions based on that context.


Set Context


Clear Context


Context has been set. You can now ask questions.


Chatbot


 jean pierre flourens carl wernicke schmitt james l. mcgaugh

 : Who invented Neuroscience?

 : When did they invent it?

 : neolithic period 1815 1964

 : Is Neuroscience a study of brain?



 : neuroscience is the scientific study of the nervous system to include different approaches used to

Ask a Question


Enter your question here...

Submit Question

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
Set a context and then ask multiple questions based on that context.


Set Context


Clear Context


Context has been set. You can now ask questions.


Chatbot

 jean pierre flourens carl wernicke schmitt james l. mcgaugh

 : When did they invent it?

 : neolithic period 1815 1964

 : Is Neuroscience a study of brain?



 : neuroscience is the scientific study of the nervous system to include different approaches used to study the nervous system at different scales modern research studies of the nervous system within other disciplines psychobiology

Ask a Question

Enter your question here...

Submit Question

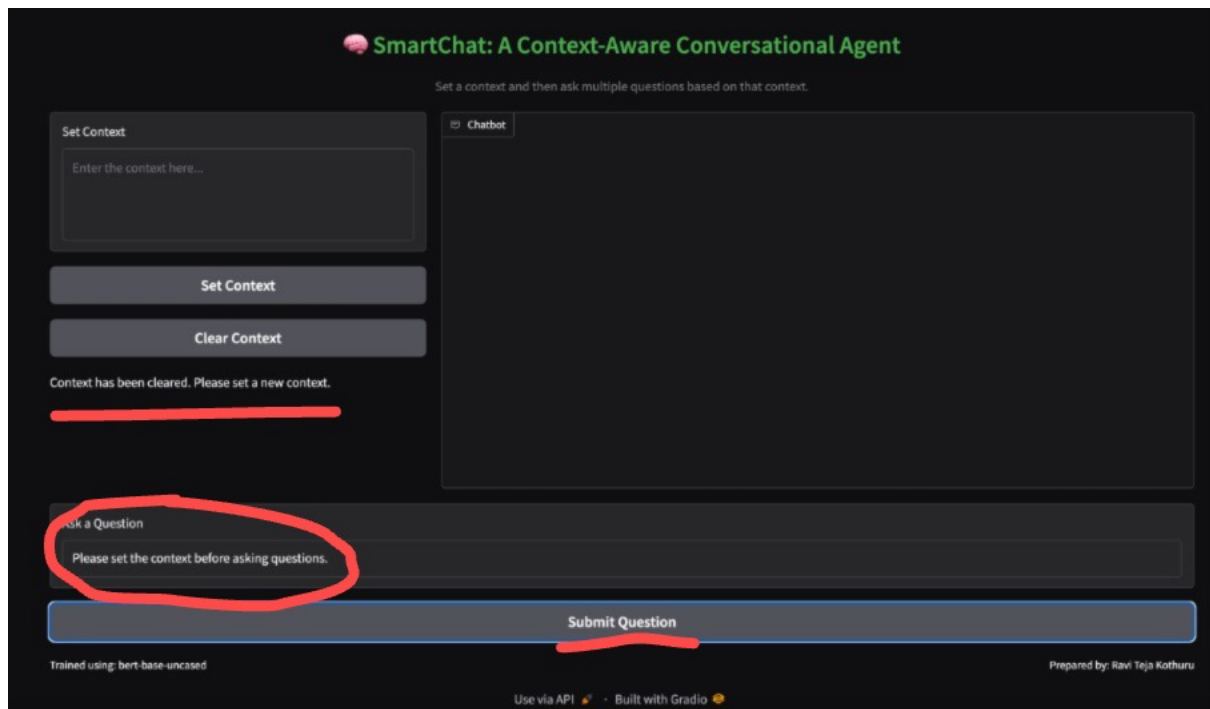
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### Common error scenario:

After the context is cleared, you pasted the context but did not set. And if you try to ask a question, then it will throw a message like below.



### Overall Observations on contexts taken from internet:

- It has understood the context very well.
- It has explained the answers to our questions in detail.