

## Chatbot variant 1: KI toolbox full configuration

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☆ **RECOMMENDED VARIANT** for most use cases

⚠ **Important decision-making aid in advance:** This guide describes variant 1 – the complete configuration in the KI toolbox (Open WebUI) for maximum flexibility.

**Suitable for:** Institutional setups, multiple courses, maximum flexibility in models and documents.

**Absolutely necessary if:** Paid cloud models such as the Azure GPT models are to be used. In the other variants, only local models are available. Please note that students will then use your budget, which is limited per month. In practice, this should not be a problem in terms of scope, but for very large courses it is possible to set up and use a dedicated service account for this purpose (see [https://www.zml.kit.edu/downloads/KI.Toolbox\\_API.pdf](https://www.zml.kit.edu/downloads/KI.Toolbox_API.pdf)).

### Overview Variant 1

Feature	Description
<b>Configuration Location</b>	KI Toolbox (model, documents, system prompt) + ILIAS (frontend only)
<b>System prompt</b>	✔ Configured in the KI toolbox
<b>Documents</b>	✔ Multiple documents possible in the knowledge repository
<b>KI toolbox needed</b>	✔ Yes (full configuration)
<b>Time required</b>	~45-60 minutes
<b>Recommended for</b>	Most Use Cases in Higher Education Teaching

#### Scenarios for variant 1:

- Centrally manage assistants for multiple courses
- Large volumes of documents as a knowledge base
- Configuring Custom Models
- Use RAG functionalities (retrieval-augmented generation)
- Advanced Model Customizations
- Course-accompanying bots with multiple scripts
- Subject-specific tutor bots with document base

## Prerequisites

- ILIAS Access as a Lecturer
- KI Toolbox Account** (the KI Toolbox uses Open WebUI as its interface)
- Permission for **model creation** in the KI toolbox

## Step by step instructions

### Test PART A: KI Toolbox Configuration

#### The procedure in the KI toolbox

Creating a custom chatbot in the KI Toolbox follows the same process as other KI Toolbox chatbots. Students only get access via ILIAS instead of the KI toolbox interface.


→ Use the existing guide: [AI. Toolbox Chatbot Guide](#) (PDF)

This describes step by step: 1. Create a new model in the KI toolbox 2. Select and configure the basic model 3. Store the system prompt 4. Add documents to the knowledge repository 5. Note the model ID (for ILIAS)

#### Teaching-Specific Notes for Variant 1

### 1. Recommendation for model selection for teaching applications:

Application	Recommended model	Justification
<b>Simple bots (FAQ, welcome)</b>	gpt-oss:120b (on-premises) or gpt-5-nano (cloud)	Resource-efficient, fast
<b>Tutor bots with scripts</b>	gpt-oss:120b (local) or Qwen3.5-397b (local)	<b>Data-sensitive content</b> , good argumentation
<b>Complex tasks, large documents</b>	gpt-5-mini (Cloud)	Large Context Window (128K Tokens)
<b>Multimodal applications</b>	Qwen3.5-397b (local)	Images, videos, OCR capabilities

 **Tip:** Start with smaller, resource-efficient models. Test if a smaller model meets your needs before switching to larger models.

💡 **Data protection:** Local models (gpt-oss:120b, Qwen3.5-397b) remain completely within the KIT infrastructure and are preferable from a data protection point of view.

## 2. System prompt for teaching:

The system prompt should contain the following elements:

<role>

You are a tutor/coach for [SUBJECT] in the course [COURSE NAME].

</role>

<context>

[Target group, learning objectives, prerequisites]

</context>

<instructions>

[Specific instructions for behavior]

- Explain step by step
- References to relevant documents in the knowledge repository
- Encourage independent thinking

</instructions>

<constraints>

- Don't give complete solutions to exercises
- In case of uncertainty, refer to the teacher
- Remain friendly and supportive

</constraints>

## 3. Documents in the Knowledge Store:

Document Type	Recommendation
<b>Scripts</b>	Segmenting into chapters improves findability, but is not absolutely necessary
<b>Sets of foils</b>	Upload as PDF

Document Type	Recommendation
<b>Exercises</b>	With or without solutions depending on the intended use
<b>Literature</b>	Excerpts as PDF, clarify copyright beforehand

💡 **Tip:** For long documents, a targeted segmentation into 1000 token chunks is recommended. Longer documents are broken down into chunks by the system when uploaded. By manually chunking in advance, it can be specifically ensured that no splitting is done in clumsy places. With [a little programming experience, many documents can also be uploaded automatically](#) via the API.

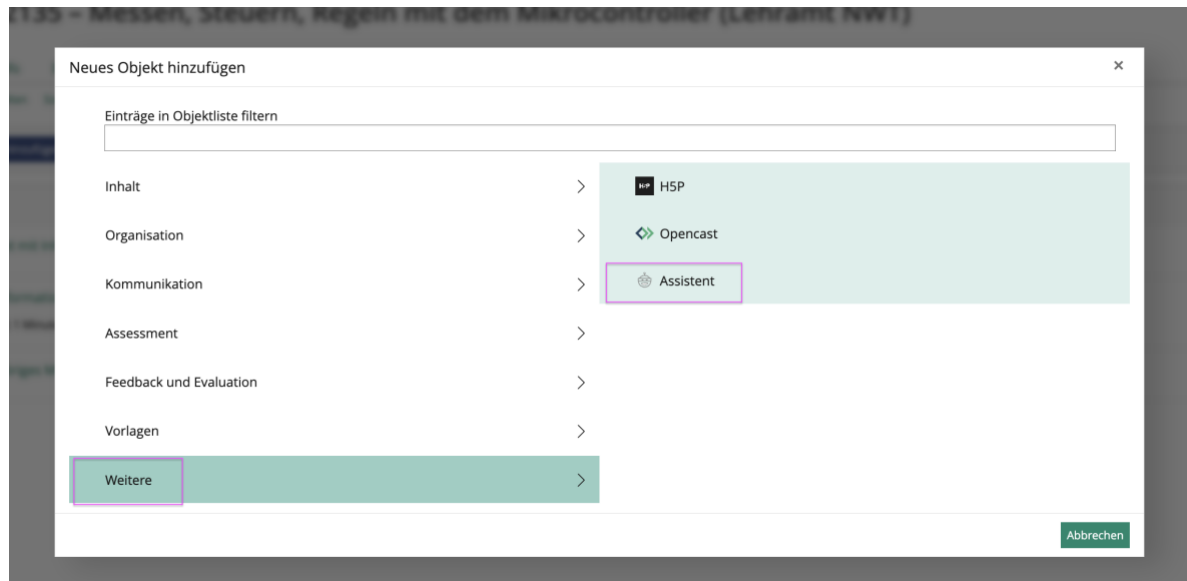
## PART B: ILIAS Configuration

### Step B1: Create wizards in ILIAS

If you do not see the Wizard object type, a rights setting is incorrect. You can find the instructions for correction here: [https://www.zml.kit.edu/downloads/Chatbot\\_Rechte-setzen.pdf](https://www.zml.kit.edu/downloads/Chatbot_Rechte-setzen.pdf).

- **Navigate to your ILIAS course**
- **Click on "Add New Object"** (above the course content)
- **Select Assistant**






**Fig.1:** Select the **"Assistant"** entry in the pop-up menu.

- **Enter title and description**

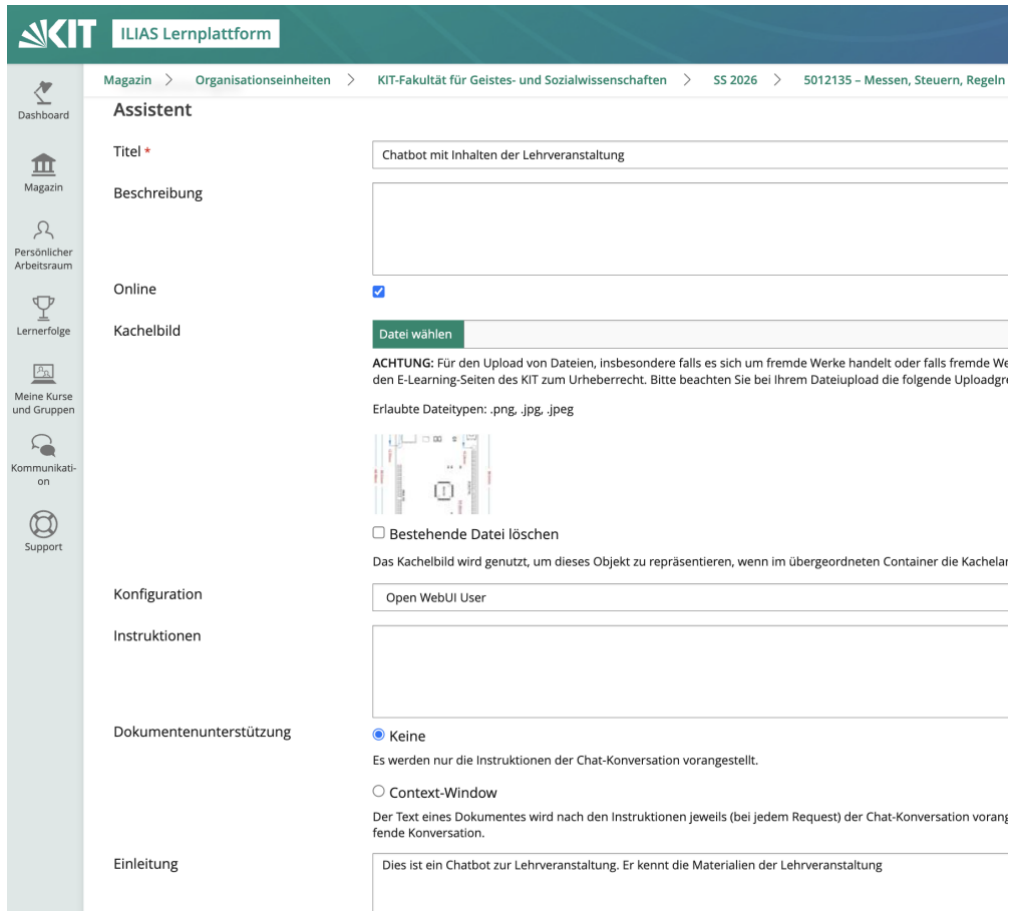
Examples: "Math Tutor", "Ethics Coach", "Script Assistant"



**Fig.2:** Enter the title and description, then click "Add Wizard".

## Step B2: Connect the model from the KI toolbox

- **Go to Settings**
- **Under "Configuration": Select Open WebUI User or Use chatbot from the KI toolbox .**
- **System prompt field Instructions in ILIAS:** For variant 1, leave the Instructions field empty.



The screenshot shows the ILIAS Lernplattform interface. The breadcrumb trail is: Magazin > Organisationseinheiten > KIT-Fakultät für Geistes- und Sozialwissenschaften > SS 2026 > 5012135 – Messen, Steuern, Regeln. The main content area is titled 'Assistent' and contains the following fields and options:

- Titel \***: Chatbot mit Inhalten der Lehrveranstaltung
- Beschreibung**: (Empty text area)
- Online**:
- Kachelbild**: Datei wählen (with a warning message: ACHTUNG: Für den Upload von Dateien, insbesondere falls es sich um fremde Werke handelt oder falls fremde Webseiten des KIT zum Urheberrecht. Bitte beachten Sie bei Ihrem Dateilupload die folgende Uploadgr Erlaubte Dateitypen: .png, .jpg, .jpeg)
- Konfiguration**: Open WebUI User
- Instruktionen**: (Empty text area)
- Dokumentenunterstützung**:
  - Keine: Es werden nur die Instruktionen der Chat-Konversation vorangestellt.
  - Context-Window: Der Text eines Dokumentes wird nach den Instruktionen jeweils (bei jedem Request) der Chat-Konversation vorangefendete Konversation.
- Einleitung**: Dies ist ein Chatbot zur Lehrveranstaltung. Er kennt die Materialien der Lehrveranstaltung

**Fig.3:** Do not enter a system prompt in the "Instructions" field to use the system prompt from the KI toolbox.

### Step B3: Do not add documents in ILIAS

**⚠ Important:** In variant 1, all documents are already stored in the knowledge repository of the KI toolbox. **You do not need to upload any documents to ILIAS.** The chatbot automatically accesses the documents configured in the KI toolbox.

### Step B4: Save

- **Click "Update"**
- **Activate "Online"** (only after successful testing, makes the chatbot available)

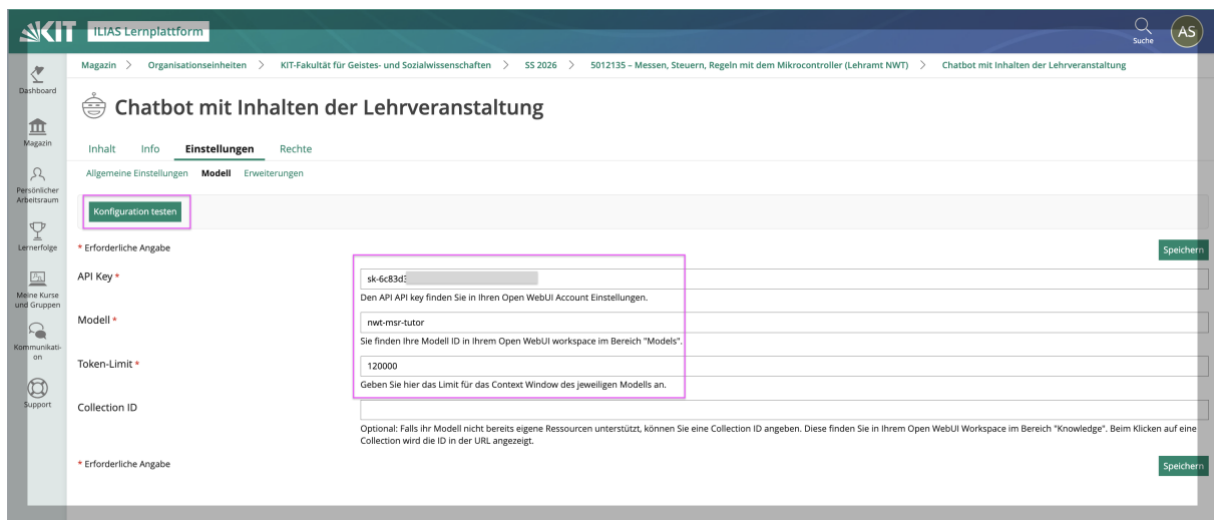
### Step B5: Connect to your own model in the KI toolbox

After saving in the previous step, **Open WebUI User or Chatbot from the KI toolbox** use a new menu item **model**. Here you can link your model from the KI toolbox.



**Fig.4:** New menu item "Model".

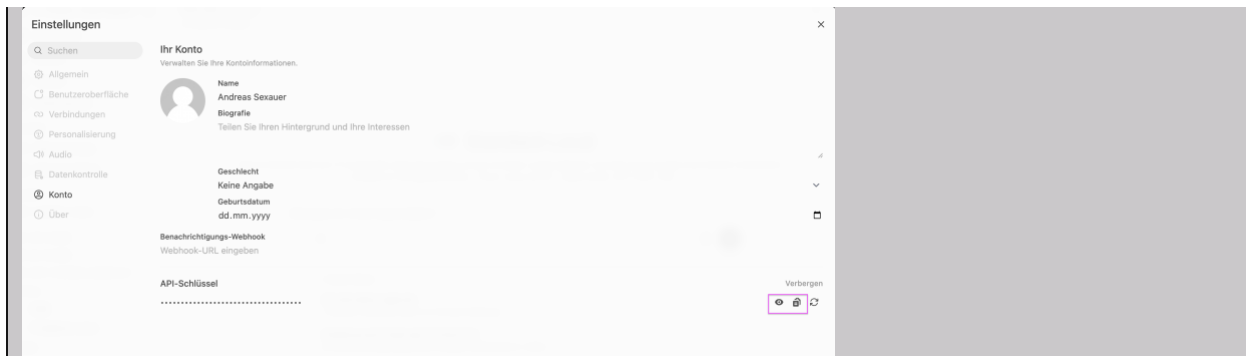
Enter your API key from the KI toolbox and the model ID and token limit. With "Test configuration", you can check whether the information works.



**Fig.5:** Enter API key and model ID to link your model from the KI toolbox.

### Find an API key

Log in to the KI Toolbox (<https://ki-toolbox.scc.kit.edu>). Click on your name at the bottom left and select Settings. In the pop-up, select the Account section on the left. The first time, an API key can be created there. For further use, you can display it there and copy it.

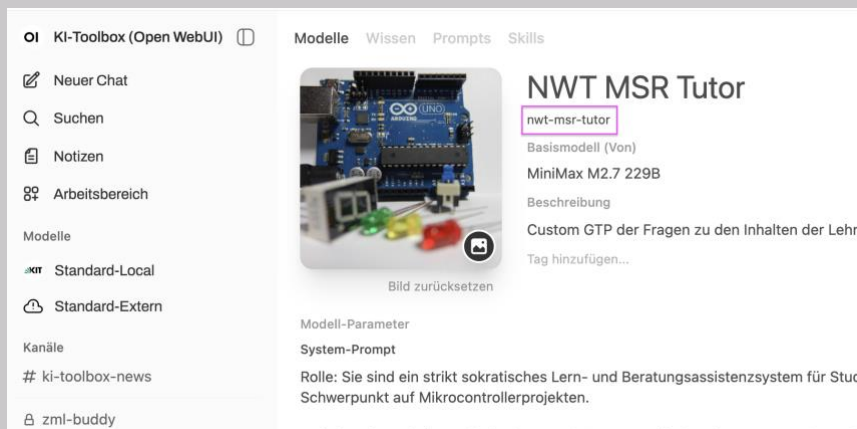


**Fig.6:** Copy your API key.

Keep the API key strictly confidential. It corresponds to a password.

### Find your model ID

The model ID can also be found in the KI toolbox. From the menu on the left, open the workspace. You will then see an overview of your models. The ID is directly below the name of the wizard. Copy them for use in the ILIAS plugin.

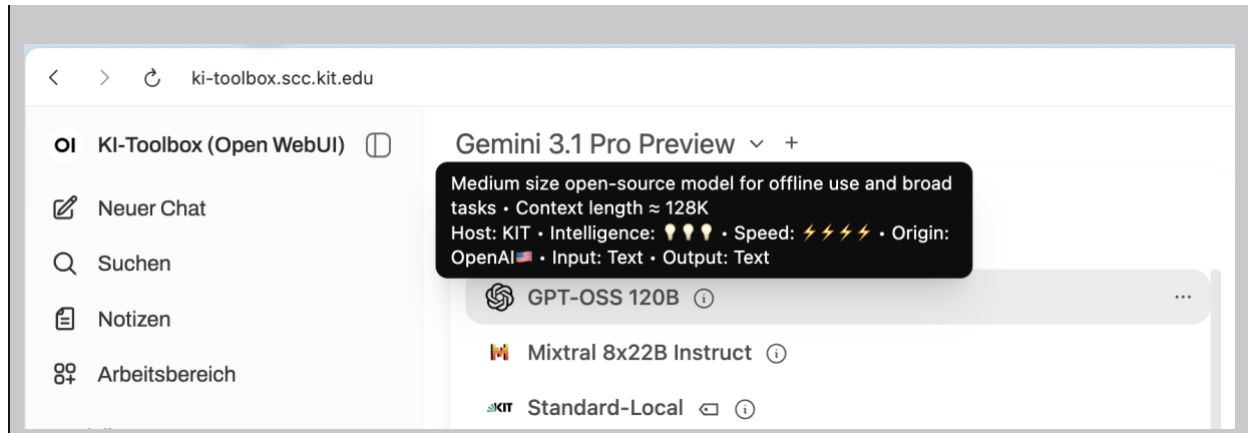


**Fig.7:** Copy the model ID.

### Determine the token limit

The token limit indicates how much the model can process at a time. You can find this for the base models in the KI toolbox at the (i) icon of the models in a new chat as Context length. A good default value is 120000.

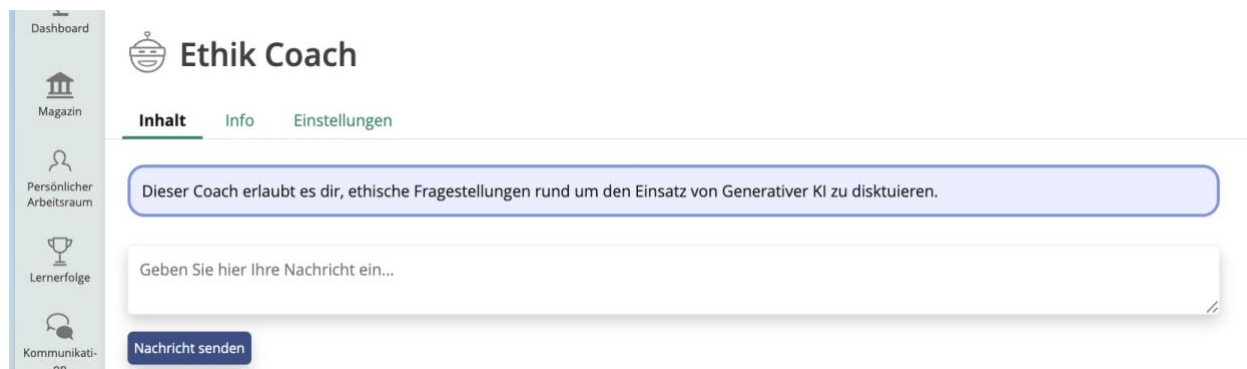




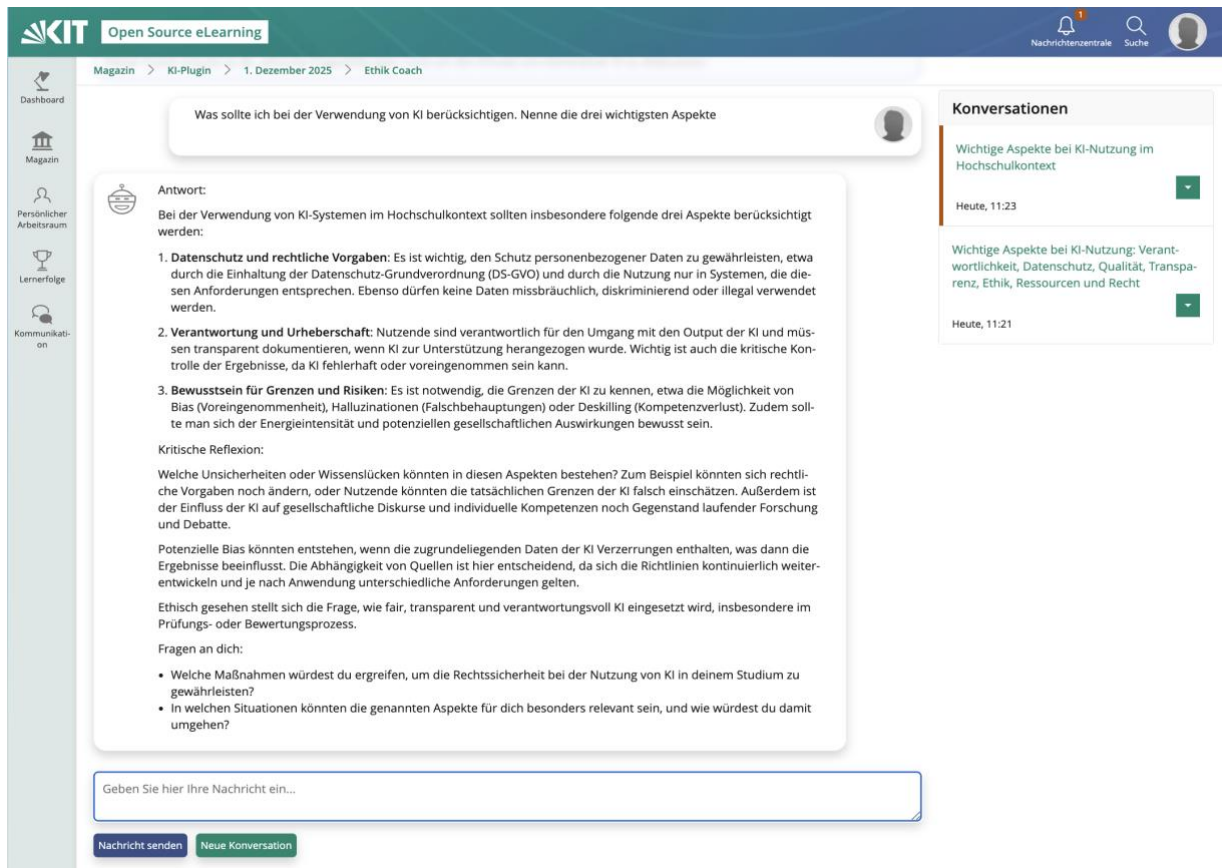
### Collection ID

Is the internal ID of the knowledge store in the KI toolbox. Since this has already been linked there in the model, this should remain empty here.

### Step B6: Testing and viewing for students



**Fig.8:** Chat view with input field for students



The screenshot shows a chat window with a question: "Was sollte ich bei der Verwendung von KI berücksichtigen. Nenne die drei wichtigsten Aspekte". The bot's response is structured as follows:

**Antwort:**  
Bei der Verwendung von KI-Systemen im Hochschulkontext sollten insbesondere folgende drei Aspekte berücksichtigt werden:

- 1. Datenschutz und rechtliche Vorgaben:** Es ist wichtig, den Schutz personenbezogener Daten zu gewährleisten, etwa durch die Einhaltung der Datenschutz-Grundverordnung (DS-GVO) und durch die Nutzung nur in Systemen, die diesen Anforderungen entsprechen. Ebenso dürfen keine Daten missbräuchlich, diskriminierend oder illegal verwendet werden.
- 2. Verantwortung und Urheberschaft:** Nutzende sind verantwortlich für den Umgang mit den Output der KI und müssen transparent dokumentieren, wenn KI zur Unterstützung herangezogen wurde. Wichtig ist auch die kritische Kontrolle der Ergebnisse, da KI fehlerhaft oder voreingenommen sein kann.
- 3. Bewusstsein für Grenzen und Risiken:** Es ist notwendig, die Grenzen der KI zu kennen, etwa die Möglichkeit von Bias (Voreingenommenheit), Halluzinationen (Falschbehauptungen) oder Deskilling (Kompetenzverlust). Zudem sollte man sich der Energieintensität und potenziellen gesellschaftlichen Auswirkungen bewusst sein.

**Kritische Reflexion:**  
Welche Unsicherheiten oder Wissenslücken könnten in diesen Aspekten bestehen? Zum Beispiel könnten sich rechtliche Vorgaben noch ändern, oder Nutzende könnten die tatsächlichen Grenzen der KI falsch einschätzen. Außerdem ist der Einfluss der KI auf gesellschaftliche Diskurse und individuelle Kompetenzen noch Gegenstand laufender Forschung und Debatte.

Potenzielle Bias könnten entstehen, wenn die zugrundeliegenden Daten der KI Verzerrungen enthalten, was dann die Ergebnisse beeinflusst. Die Abhängigkeit von Quellen ist hier entscheidend, da sich die Richtlinien kontinuierlich weiterentwickeln und je nach Anwendung unterschiedliche Anforderungen gelten.

Ethisch gesehen stellt sich die Frage, wie fair, transparent und verantwortungsvoll KI eingesetzt wird, insbesondere im Prüfungs- oder Bewertungsprozess.

**Fragen an dich:**

- Welche Maßnahmen würdest du ergreifen, um die Rechtssicherheit bei der Nutzung von KI in deinem Studium zu gewährleisten?
- In welchen Situationen könnten die genannten Aspekte für dich besonders relevant sein, und wie würdest du damit umgehen?

At the bottom of the chat window, there is a text input field with the placeholder "Geben Sie hier Ihre Nachricht ein..." and two buttons: "Nachricht senden" and "Neue Konversation".

Fig.9: Example of a structured bot response

## Summary Variant 1

Aspect	Rating
<b>Setup</b>	⚠️ Complex, KI Toolbox + ILIAS
<b>System prompt</b>	✅ Configurable in the KI toolbox
<b>Documents</b>	✅ Several in the knowledge store
<b>Time required</b>	⚠️ ~45-60 minutes
<b>Flexibility</b>	✅ Maximum
<b>Reusability</b>	✅ Model can be used in several courses
<b>Recommended for</b>	✅ Most use cases

## Next steps

### Start of lectures (summer semester 2026):

- ✅ KI toolbox configuration can already be

✓ prepared In ILIAS, all you have to do is create the wizard and enter the model ID (~5 minutes)

**Advanced features:**

Special features for multilingualism, adaptive difficulty levels

System prompt introduction for advanced techniques:

[https://www.zml.kit.edu/downloads/Chatbot\\_Systemprompt.pdf](https://www.zml.kit.edu/downloads/Chatbot_Systemprompt.pdf)

**Quality assurance:** [https://www.zml.kit.edu/downloads/Chatbot\\_Validierung\\_Kontrolle.pdf](https://www.zml.kit.edu/downloads/Chatbot_Validierung_Kontrolle.pdf)

**Didactic inspiration:** <https://www.zml.kit.edu/didaktische-chatbots.php>

## Help & Support

Problem	Solution
No permission for KI toolbox	Contact KI Toolbox Support: <a href="mailto:ki-toolbox@scc.kit.edu">ki-toolbox@scc.kit.edu</a>
Model is not displayed in ILIAS	API key/model ID noted correctly?
Further questions	ZML-Info: <a href="mailto:info@zml.kit.edu">info@zml.kit.edu</a>

## Info & Contact

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