

Additional Chatbot Challenges

Think of a task that you'd like an AI assistant to help with. Your chatbot is only going to be as smart as you make it, so if you want it to be able to respond to a wide variety of questions, you'll need to fill your **assistant.txt** file with a lot of possible answers that reflect those questions you have. Ask a friend or classmate what *they* would ask your character to see what quotations and answers you should add.

Remember, to find the file where all of the answers are located. Go to the **Files** pane, select the folder '**commands**,' and then the '**files**' folder from there, where you can see the **assistant.txt** file. Swap out the answers with ones you feel your chatbot should give.

Food Recommendations ChatBot

Briefing:

Do you and your parents ever have trouble deciding what to eat for dinner? Or maybe you've been out at a restaurant or cafe, and there were just so many choices on the menu that you didn't know what you wanted. Sometimes it can be really hard to make a decision. So maybe you could use this chatbot to help us make that decision.

*What would that look like? What would you have to put into this **assistant.txt** file, and what kinds of questions would you need to ask the chatbot to get a recommendation? You should start by adding all the answers the chatbot can give to the **assistant.txt** file. This is where the AI will come to find a recommendation, so fill this up with as many different dishes as you can.*

Some food for thought, though—the AI will only be as smart as you train it to be, so if you want it to be able to answer all of your questions, you need to give it plenty of variety to choose from. Consider if someone wants an appetizer instead of a main course, or has a

dairy allergy and can't have food with that in it. Does this list you're building have options on there to choose from? Try to include as many different cuisines and courses as you can think of.

Sample questions for the chatbot to answer:

- Can you recommend a vegetarian Thai appetizer for me?
- I don't like spicy food, what should I eat?
- Recommend me some Italian food, but no seafood?
- I'm allergic to nuts, what can you recommend?
- Can you recommend some savory food?

As you work on this challenge, ask yourself these questions.

- What kind of food do you like?
- What variations are there in that cuisine?
- What is the importance of eating healthy? Does the AI understand this?
- What use could an AI like this have in the food industry?
- How can AI be used to help you make healthier food choices?

Sample finished assistant.txt responses file for this ChatBot:

I recommend tofu green curry.
I recommend chicken green curry.
I recommend vegetable spring rolls.
I recommend deep fried pork spring rolls.
I recommend chicken satay skewers.
I recommend shrimp pad thai.
I recommend tofu pad thai.
I recommend cheese pizza.
I recommend Hawaiian pizza.

I recommend pepperoni pizza.
I recommend fettuccine Alfredo without scallops.
I recommend fettuccine Alfredo with scallops.
I recommend garlic breadsticks.
I recommend saag paneer with naan.
I recommend saag paneer with rice.
I recommend butter chicken with rice.
I recommend chana masala with rice.
I recommend vegetable samosas.
Sorry, I'm not sure of the correct answer.

Your chatbot is only going to be as smart as you make it, so if you want it to be able to respond to a large variety of situations (like allergies, or spicy dishes), you'll need to fill your **assistant.txt** file with a lot of possible answers that reflect a wide range of dishes.

Make sure your chatbot is able to make suggestions that are:

- Different cuisines (ex: Italian, Indian, Asian, etc.)
- Entrees or appetizers (or deserts)
- Vegetarian or vegan
- Dairy-free/nut-free (for those with allergies)
- Served hot or cold

Movie / Show / Video Game Q&A ChatBot

Briefing:

You just learned that chatbots are becoming increasingly popular, and for good reason—they allow for easy communication between people and can be programmed to provide a wide range of services, from customer support to personal assistance. But what if you could take this technology one step further and create a chatbot based on your favorite movie character?

With a little bit of creativity and programming skills, you can bring your favorite character to life in your conversations. Imagine chatting with Harry Potter, Iron Man, or even Darth Vader! In this way, you can add some fun and personality to your chatbot experience. So, let's get started and bring your favorite movie character to the world of chatbots!

Sample questions for the chatbot to answer: (Can you guess who we chose?)

- Where did you grow up?
- Do you have any brothers or sisters?
- Who is your favorite droid?
- How long have you been a Jedi?
- What did you do after destroying the Death Star?

As you work on this challenge, ask yourself these questions.

- What forms of entertainment do you enjoy?
- What is your favorite story?
- What use could a chatbot like this have in the entertainment industry? What use could it have for users?
- Is there a limit to how much the AI will know about a character?

Sample finished assistant.txt responses file for this ChatBot:

I grew up on Tatooine.

I know everything there is to know about moisture farming.

I have one sister named Leia.

All my friends are robots, everyone else joined the Rebellion.

I am a leader in the Rebellion.

I am a Jedi Master.

I have many friends, but some are Han, Chewie, Leia, and Lando.

I know of one old man in the desert.

The name of the man in the desert is Ben.

My mother was a queen and my father was a Jedi.

I pilot an X-Wing.

My codename is Red-Five.

R2-D2 flies with me everywhere I go.

I'm handy at fixing robots.

I was trained by Masters Obi Wan and Yoda.

I trained on planet Dagobah.

My lightsabers were blue, and then green.

I have helped destroy two Death Stars.