Chatbot Conversation Log

Stage 2 (Image Classification Component)

 # Rule-based component (AIML)
 # The responses are generated based on an AIML document

Hi there! I am your personal nutritionist.
Feel free to ask me any questions about nutrition, food or wellbeing

> Hi
Hello! How are you?

> I'm fine
That's good to know.

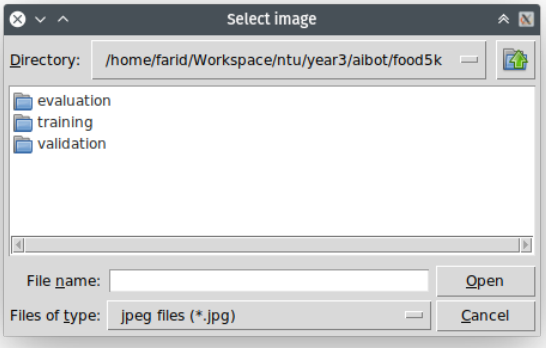
> How are you?
I'm functioning within normal parameters, thanks for asking.

 # Image classification component

 # Using a binary convolutional neural network to determine if an image contains food.
 # When the user inputs the following request, a dialog that allows the user to choose an image appears.
 # Once the user chooses an image the chatbot will use a train convolutional neural network to determine if the image contains food.

> Does this image contain food?
The image contains food.

 # The following screenshot represents the dialog used by the user to choose the image that is displayed on the right.
 # Using the image and the trained neural network the chatbot was able to determine that the image contained food.



 # The following response is given by the chatbot when an image that does not contain food is given. (The image on the right has been used in this example)

> Does this image contain food?
The image does not contain food.

 # The chatbot can also use a second convolutional neural network to classify food images into 4 categories: Bread, Egg, Meat, Vegetable/Fruit.
 # As for the previous examples, a dialog box allows the user to choose an image.

> What is this image?
The image contains: Meat
Bread: 0.00%
Egg: 0.00%
Meat: 100.00%
Vegetable-Fruit: 0.00%

 # An image of vegetables is used in the following example

> What is this image?
The image contains: Vegetable-Fruit
Bread: 0.00%
Egg: 0.00%
Meat: 0.00%
Vegetable-Fruit: 100.00%