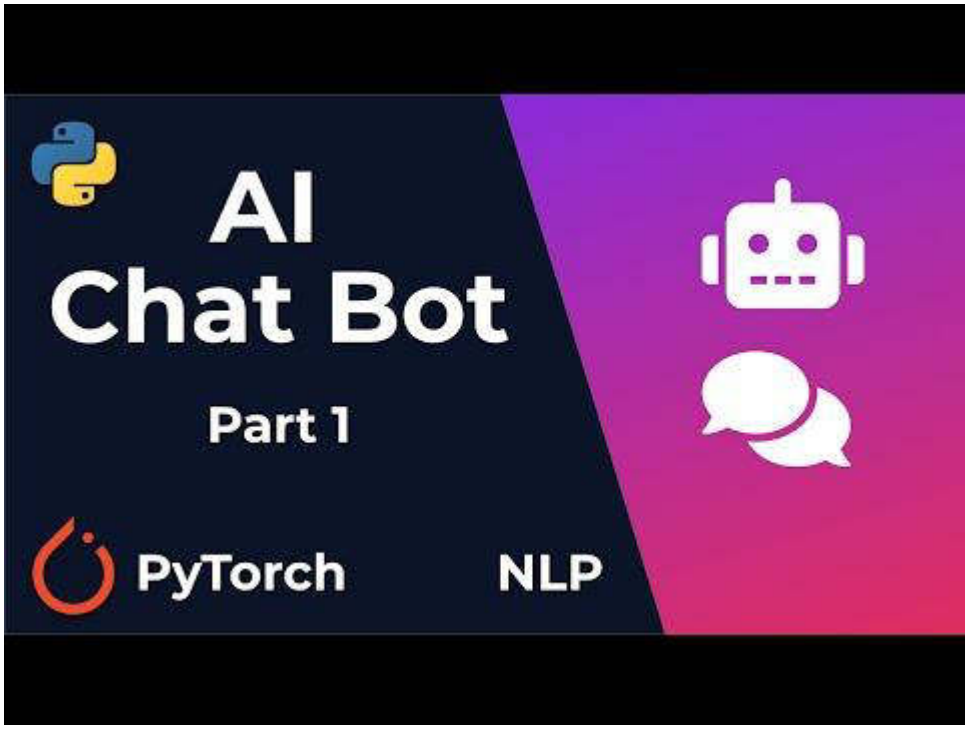
Implementation of a Contextual Chatbot in PyTorch.

Simple chatbot implementation with PyTorch.

- The implementation should be easy to follow for beginners and provide a basic understanding of chatbots.
- The implementation is straightforward with a Feed Forward Neural net with 2 hidden layers.
- Customization for your own use case is super easy. Just modify `intents.json` with possible patterns and responses and re-run the training (see below for more info).

The approach is inspired by this article and ported to PyTorch:
https://chatbotsmagazine.com/contextual-chat-bots-with-tensorflow-4391749d0077.

Watch the Tutorial



Installation

Create an environment

Whatever you prefer (e.g. `conda` or `venv`)

```
mkdir myproject
$ cd myproject
$ python3 -m venv venv
```

Activate it

Mac / Linux:

```
. venv/bin/activate
```

Windows:

```
venv\Scripts\activate
```

Install PyTorch and dependencies

For Installation of PyTorch see official website.

You also need `nltk` :

```
pip install nltk
```

If you get an error during the first run, you also need to install `nltk.tokenize.punkt` : Run this once in your terminal:

```
$ python
>>> import nltk
>>> nltk.download('punkt')
```

Usage

Run

```
python train.py
```

This will dump `data.pth` file. And then run

```
python chat.py
```

Customize

Have a look at intents.json. You can customize it according to your own use case. Just define a new `tag` , possible `patterns` , and possible `responses` for the chat bot. You have to re-run the training whenever this file is modified.

```
{
  "intents": [
    {
      "tag": "greeting",
      "patterns": [
        "Hi",
        "Hey",
        "How are you",
        "Is anyone there?",
        "Hello",
        "Good day"
      ],
      "responses": [
        "Hey :-)",
        "Hello, thanks for visiting",
        "Hi there, what can I do for you?",
        "Hi there, how can I help?"
      ]
```

```
    },
    ...
  ]
}
```

Releases

No releases published

Packages

No packages published

Languages

- Python 100.0%