http://www.codeproject.com/Articles/36106/Chatbot-Tutorial

Includes a step-by-step tutorial how you can set up and improve your own chatbot. Although the provided code samples are in C++, the tutorial's descriptions per step can still be useful to develop your own chatbot.

http://www.gamasutra.com/view/feature/6305/beyond\_fa%C3%A7ade\_pattern\_matching\_.php

This reads as a nice introduction to various techniques used to design chatbots.

https://en.wikipedia.org/wiki/Outline\_of\_natural\_language\_processing#Chatterbots

A list of existing chatbots which could be used as an inspiration.

http://www.slideshare.net/amyiris/ai-and-python-developing-a-conversational-interface-using-python

A presentation with information regarding chatbots, what techniques can be used and which popular chatbots are out there.

http://brutal.readthedocs.org/en/latest/index.html

Brutal is a multi-network asynchronous chatbot framework for python. It can be used as the foundation for the chatbot. Documentation seems to be very limited though.

http://www.nltk.org/book/

An in-depth look at Natural Language Processing. NLP involves a machine to understand complete human utterances, at least to the extent of being able to give useful responses to them. The book offers a lot of practical information, containing hundreds of fully-worked examples. It's based on the open source library called the Natural Language Toolkit which can be found here: http://nltk.org/. It includes extensive software, data and lots of documentation. It also contains a few implemented chatbots.

http://sleekxmpp.com/index.html#

SleekXMPP is a XMPP library for python used for the sole purpose of creating a chatbot. This library involves a low number of dependencies and is based on the XMPP message-oriented middleware. Documentation of this library is limited.

https://github.com/Microsoft/BotBuilder

BotBuilder is a SDK of Microsoft which you can use to create intelligent chatbots. It comes with many popular services such as connecting the bot to text/sms, Skype, Office mail, etc. The code and documentation is very extensive and there are a great number of examples available. Although, this SDK is only supported by C# and Node.js.

http://www.devdungeon.com/content/ai-chat-bot-python-aiml

A great introduction to AIML which is a form of XML that defines rules for matching patterns and determining responses for your chatbot. The creator of A.L.I.C.E., a chatbot which won several intelligence awards, developed AIML. AIML is supported by Python. AIML also has several existing AIML files you can use for free, including one that contains chatbot intelligence to respond to the most common 65% of phrases.

https://pypi.python.org/pypi/ChatterBot/0.1.1

A chatbot that starts off with no knowledge of how to communicate. Each time a user enters a statement, the library saves the text that they entered and the text that the statement was in response to. As the chatbot receives more input, the number of responses that it can generate and the accuracy of each response in relation to the input statement increase.

http://chatbotfriends.altervista.org/opensource.html

A collection of open source chatbots.

https://opensourcehacker.com/2013/03/28/building-chat-applications-and-robots-for-skype/

A chatbot code example with integration with Skype.

https://sopel.chat/

A open-source IRC utility chatbot, written in Python. It's designed to be easy to use, easy to run, and easy to make new features for. It comes with a ton of ready-made features and a fully-documented API.

https://www.smallsurething.com/implementing-the-famous-eliza-chatbot-in-python/

An example of implementing the famous ELIZA chatbot in Python.

http://www.codeproject.com/Articles/12454/Developing-AI-chatbots

Some general information about how you should go about developing your own chatbot.