**Methods for customizing chatbot**

* **Knowledge base**: It is a documentation with vector embeddings. When we ask question to a chat bot, then at first we are finding in a documentation fragments with a similar meaning to a question (semantic search) and we pass those fragments together with a question as input to a chat bot. Those fragments of documentation are a context helping chat bot to provide accurate answer. Websites about that:
  + <https://livefiredev.com/build-a-custom-chatbot-using-python-custom-knowledge-base/>
* **Instruction tuning:** We are providing a chat bot dataset with questions and correct answers from which chat bot can learn how to answer those questions.
  + <https://github.com/ubaidkhan08/Fine-Tuned-Chatbot-Tutorial/blob/main/OPENAI%20Approach/OPENAI%20Fine-tuning.ipynb>
  + <https://medium.com/@hermanschutte/how-to-custom-train-and-fine-tune-models-with-the-chatgpt-api-afb796aaf2fe>
  + <https://medium.com/@r2consultingcloud/a-step-by-step-guide-to-custom-fine-tuning-with-chatgpts-api-using-a-custom-dataset-54dae6c055ce>
* **Domain adaptaion:** It’s a method for equipping a chat bot in a domain specific knowledge. Chat bot can for example read documentation and try to predict the next sentence. In this way it is learning from this documentation. Websites about that:
* **Articles:**
  + <https://arxiv.org/pdf/2311.10614>