**Statements of application**

**Author: Bi Xiaoyang, Wang Qipeng**

After two weeks’ research for the existing Seq2seq Chatbot, we finally sum up all the information and came up with the idea on how to put our Seq2seq Chatbot practice and find the direction to which will we research in the next step. Also, we had a heated discussion and finally made up our mind to name our chatbot as **Medi-Assist**.

**Medi-Assist** uses techniques such asdeep learning and its model is based on recurrent neural network (RNN), which is capable of understanding natural language by destructing the input sentences into words and then predicting the output, words at first, they are concatenated to sentences. An RNN has a problem of vanishing-gradient, so our designed **Seq2Seq** models use advanced RNN algorithms called long short-term memory (LSTM) to avoid this problem.

For the domain of our designed **Seq2Seq chatbot**, it will be a Q&A system capable of generating daily conversation and providing knowledge of preventive measures against Covid-19. It means that it is not only able to chat with you when you are bored sometimes, but also able to make professional responses to questions on Covid-19.

The application of **xxx** can be applied all over the world for the spread of COVID-19, especially in those developing countries where people lack basic knowledge of COVID-19 and vaccination. This chatbot provides professional and accurate answers to every question concerning the epidemic. Getting information from xxx aims at both being time-saving and preventing the misinformation, other than from searching engine. Our idea was originated from a chatbot called **Medi-Assist**, which aims to make medical diagnoses faster, easier, and more transparent for both patients and physicians – think of it like an intelligent version of WebMD that you can talk about to. **Medi-Assist** is powered by a sophisticated machine learning system that offers increasingly accurate responses to user questions based on behaviors that it “learns” by interacting with human beings. We take it as our model.

Being under the Covid-19 situation is a tough time, we need chatbot applied into medical assistance more than ever. Hopefully, we may apply Recurrent Neural Network to build a **Seq2seq chatbot**, whose Q&A system can generate responses to not only daily dialogues but also your questions about preventive measures against COVID-19 and about vaccination.