**RUDIMENTARY PYTHON CHATBOT USING TENSORFLOW**

**Technologies Used:**

* Python
* Tensorflow
* Nltk
* Numpy

**Additional Python modules recommended:**

* Curses (for good looking CLI’s and good keyboard handling)

**Features:**

* Easily understood and simple network
* Can be trained to answer specific as well as general queries as per needs
* Topics of interest can be selected and entered on a topic wise basis
* Optimised for small datasets for faster model training

**To – Do:**

* Allow ingestion of data from files rather than manual entry
* Optimise the bot for larger datasets covering wide variety of topics
* Integrate web scraping to answer queries regarding live data
* Host on a website or build a GUI for ease of user access
* Use more complex algorithms to further speed up responses and improve accuracy
* Feature to train itself from input user data

**Notes:**

* Bot was made with the help of a tutorial on YouTube by Tech with Tim (<https://youtube.com/playlist?list=PLzMcBGfZo4-ndH9FoC4YWHGXG5RZekt-Q>).
* Being beginners in ML and Programming in general, this was an invaluable introduction to topics like ML and Neural Networks and this experience will never be matched again.
* It was a great learning experience and perhaps, we could participate in next year’s hackathon and present our own unique solution, and who knows, we might just succeed.

We thank the entire team of organisers, members and mentors at this Tri-NIT hackathon for this amazing opportunity for us freshers.