

**Chat-Bot with Machine Learning**

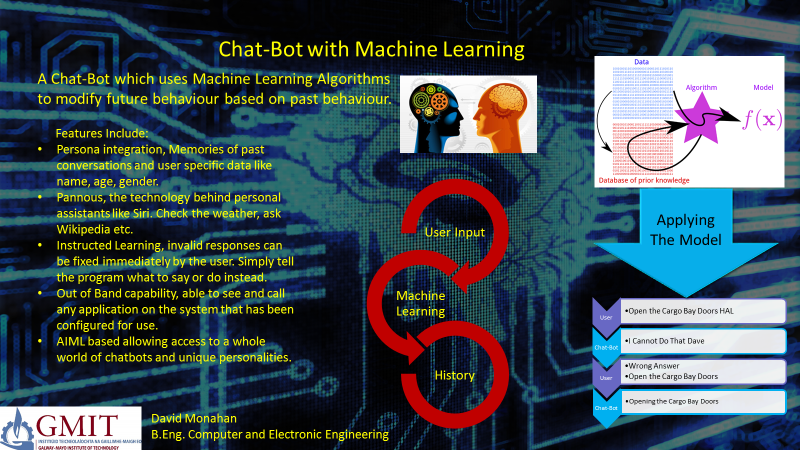
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This project is presented in partial fulfilment of the requirements for the degree of Bachelor of Engineering in Computer & Electronic Engineering at GalwayMayo Institute of Technology. This project is my own work, except where otherwise accredited. Where the work of others has been used or incorporated during this project, this is acknowledged and referenced.



I would like to acknowledge the good people at Stack Overflow (<https://stackoverflow.com/>) without whom I would still be trying to make this thing work.

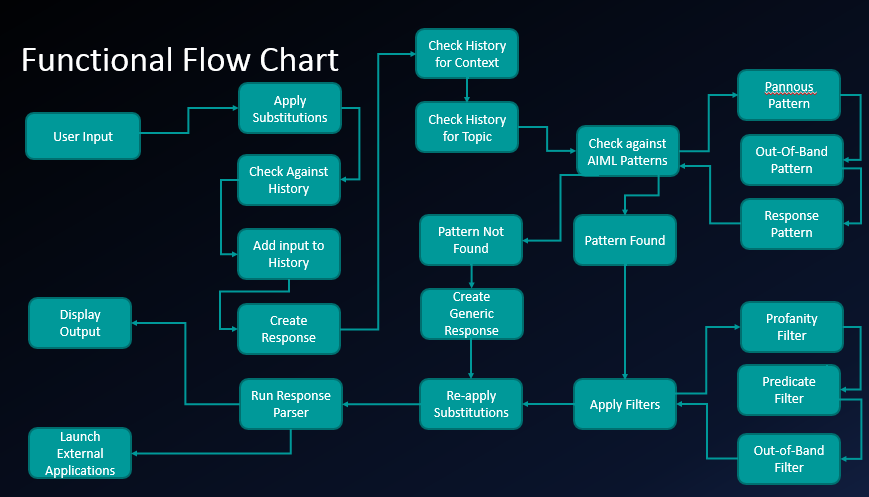
**Project Summary**

A Chat-Bot is a program which attempts to emulate conversations with another person. There are multiple examples of Chat-Bots in common use from the simple and mundane like automated Helplines, to the more complex and interactive like Siri. Chat-Bots have been advancing quite rapidly in recent years with the advent of mobile computing power allowing for much more complex A.I. algorithms to be incorporated into portable devices. However the biggest limitation of Chat-Bots is still their inability to learn.

The goal of this project is to try and alleviate some of that limitation. To that end I have adapted a pre-existing rules based Chat-Bot

The goal of this project was to create a virtual assistant style chat-bot with the ability to learn from the user and over time become a more useful application. To this end I decided to adapt a pre-existing rules based chat-bot and see if I could improve both its learning capabilities and its functional abilities. This project incorporates large amounts of code from the ALICE A.I. Foundation, specifically the S.U.P.E.R AIML Bot and Program AB AIML 2.0 Reference implementation. All

The summary should concisely summarise your whole project. Why? What? How? It should communicate: – The goal of the project. – The scope of the project. – The important features of the project. – The approach to the project. – The main methods & technologies used. – What was accomplished. – The main conclusions. The length of the summary should be 200-300 words.



**References:**

[1] <https://code.google.com/archive/p/aiml-en-us-foundation-super/>

[2] <http://alicebot.blogspot.ie/2013/01/program-ab-aiml-20-reference.html>

[3] <https://github.com/lumenrobot/program-ab>

[4] <http://callmom.pandorabots.com/static/reference/#elements/-lt-oob-gt->