

# AI based Chatbot

Hello!



Hii..!, How are you ?

Hello!

I'm a AI based Chatbox. How can I help you ?

Who developed you ?

ARIYATHILAKA P.C.G ..... 2018/E/009  
CUMARATHUNGA P.I.A ..... 2018/E/022  
MADURANGA W.P.N ..... 2018/E/073  
RODRIGO S.M ..... 2018/E/102

What is a Chatbot ?

A chatbot is as an AI based computer program that simulates human conversations.

They can communicate through voice as well as text and can be deployed across websites, applications, and messaging



Can I know the Types of Chatbots ?

Rule-based Chatbots

AI powered Chatbots

Intellectually independent Chatbots

What are the opportunities that we can grab from a Chatbot ?

Reduce people-to-people interactions with users

Make user service available 24/7

Save time and money

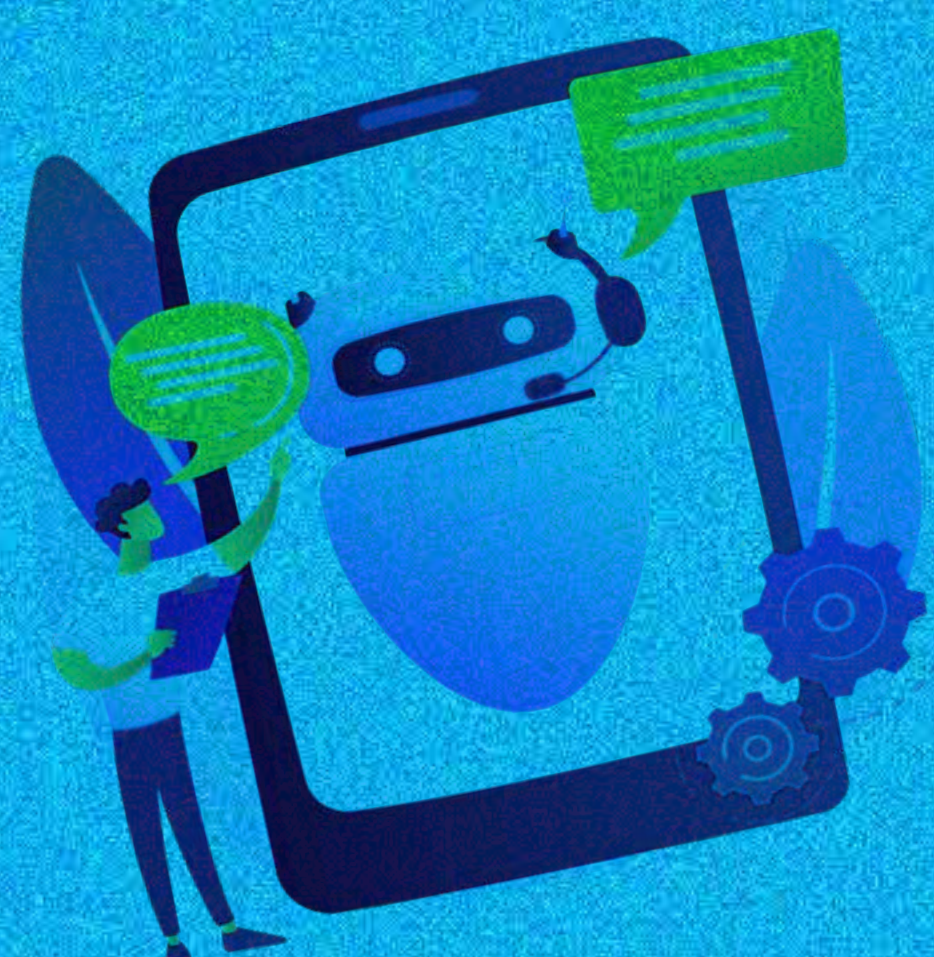
What is University Website Chatbot ?

From a university based Chatbot, students can get any kind of information regarding courses, admissions, timetables and lecturer details without directly contact AR office.

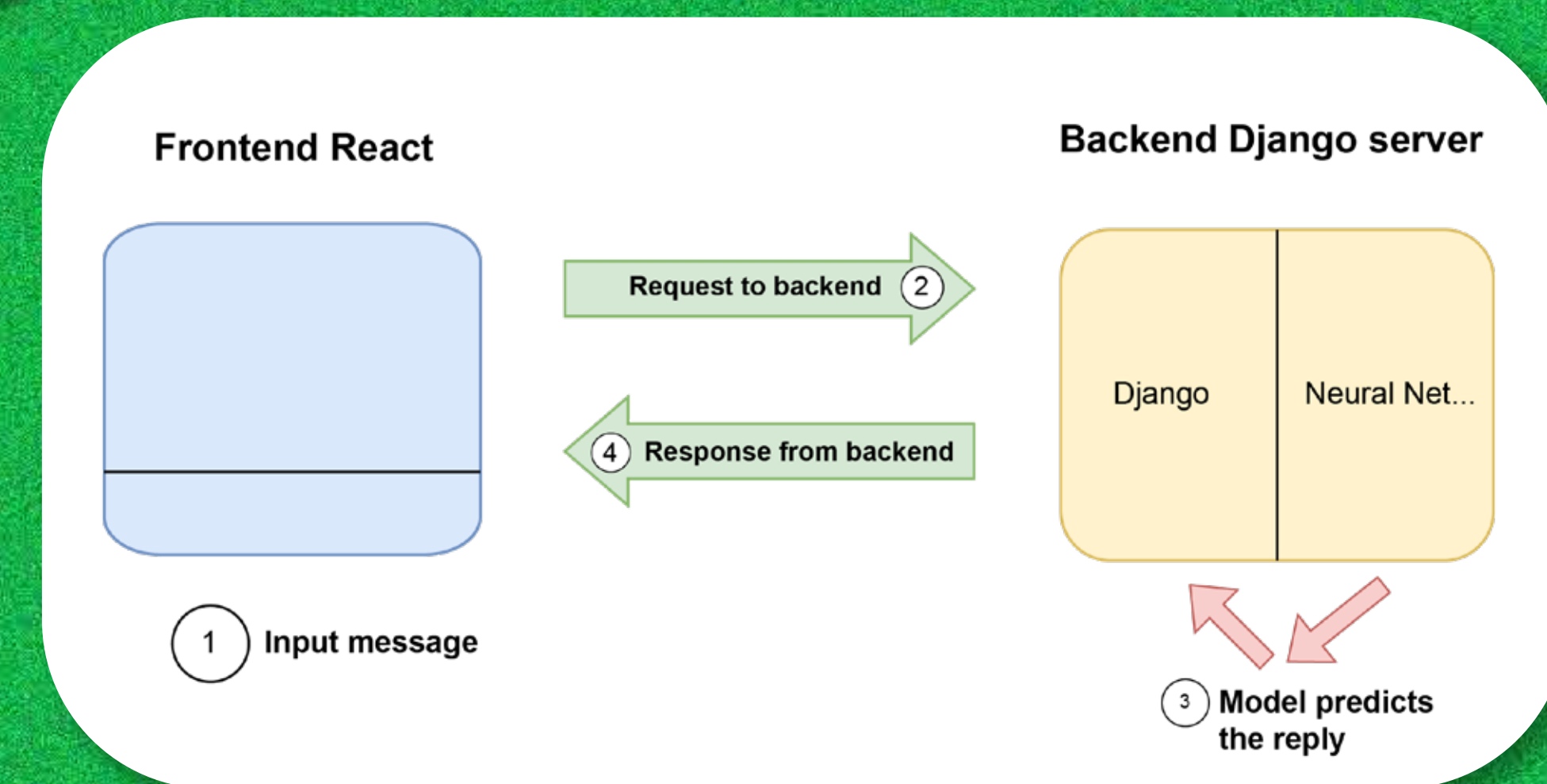
Natural Language Processing (NLP) technology can use for this Chatbot to parsing, tokenizing, stemming and filtering the content of the complaint.

Risks for the system

- Data security
- Difficulties in speech recognition
- Limited Responses for Customers
- Risks of using standard web protocols



What is the architecture of you ?



What AI technics you use ?

Natural Language Processing ( NLP )

What is NLP ?

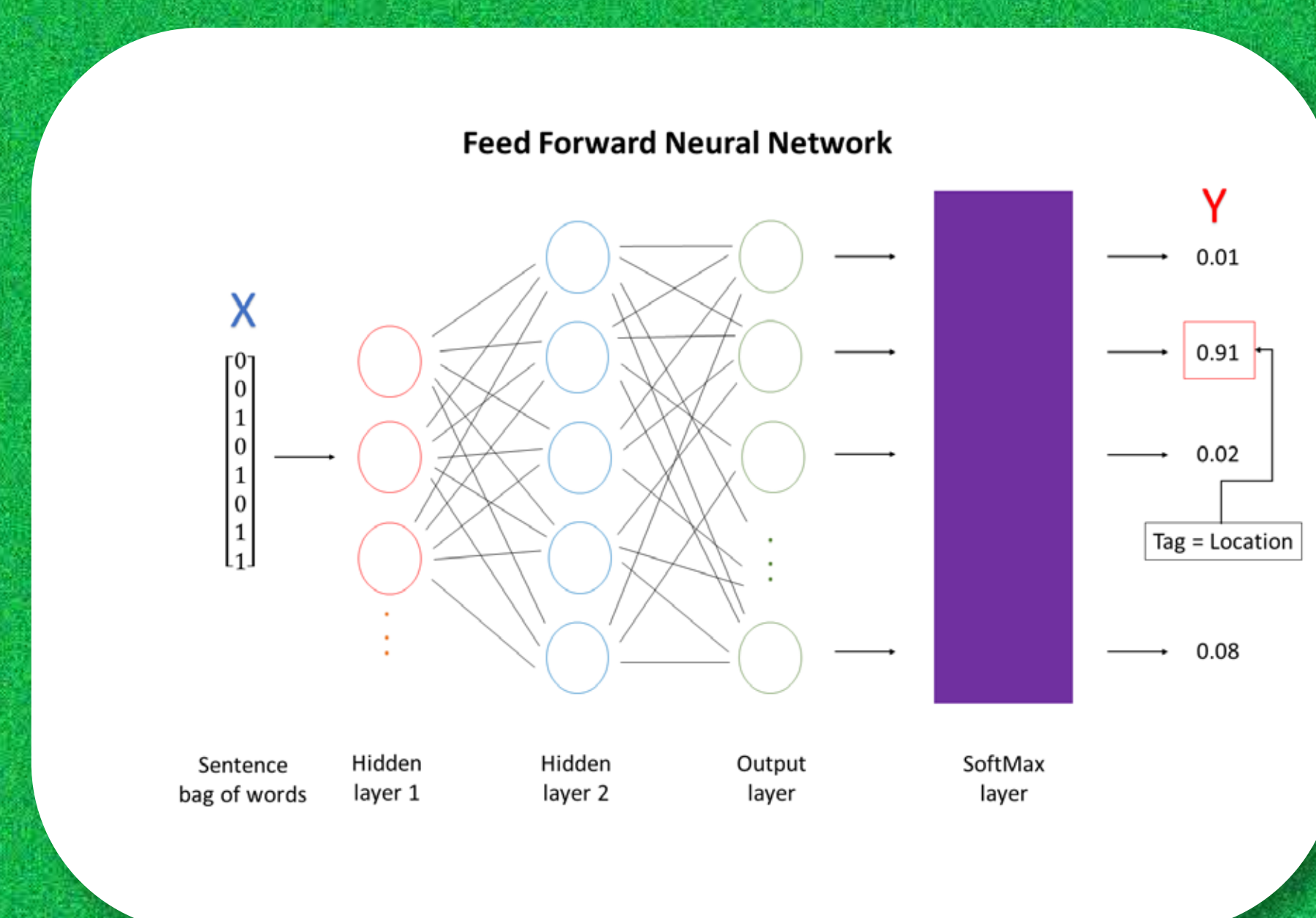
Natural language processing (NLP) is the ability of a computer program to understand human language as it is spoken and written.

How NLP works in Chatbot ?

Our NLP Preprocessing Pipeline

"Where is faculty located?"  
↓ tokenize  
["Where", "is", "faculty", "located", "?"]  
↓ Lower + stem  
["where", "is", "faculty", "locat", "?"]  
↓ exclude punctuation characters  
["Where", "is", "faculty", "locat"]  
↓ bag of words  
X [0, 0, 1, 0, 1, 0, 1, 1]

And I use a Neural Network to get predictions



Can I know your references ?

Of Course,  
<https://www.excelr.com/the-negative-side-of-chatbot>  
<http://aegaeum.com/gallery/agm.j-2967.23-f.pdf>  
<https://www.analyticsvidhya.com/blog/2021/10/complete-guide-to-build-your-ai-chatbot-with-nlp-in-python>

Thank you Buddy!

Welcome You!

Have a nice day..

