

# MOVIE RECOMMENDATION

# THROUGH CHATBOT



What can I  
do for you?

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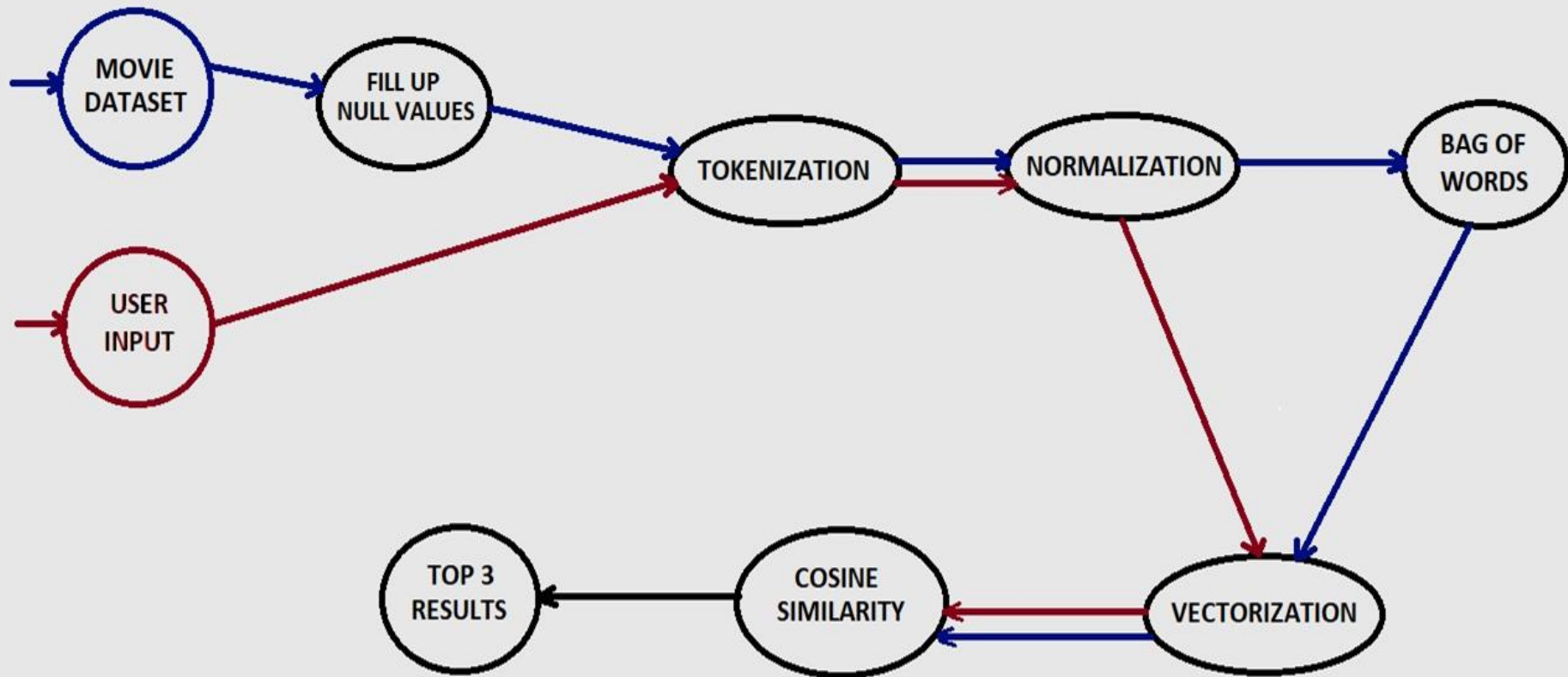
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-> MR. MOHD.

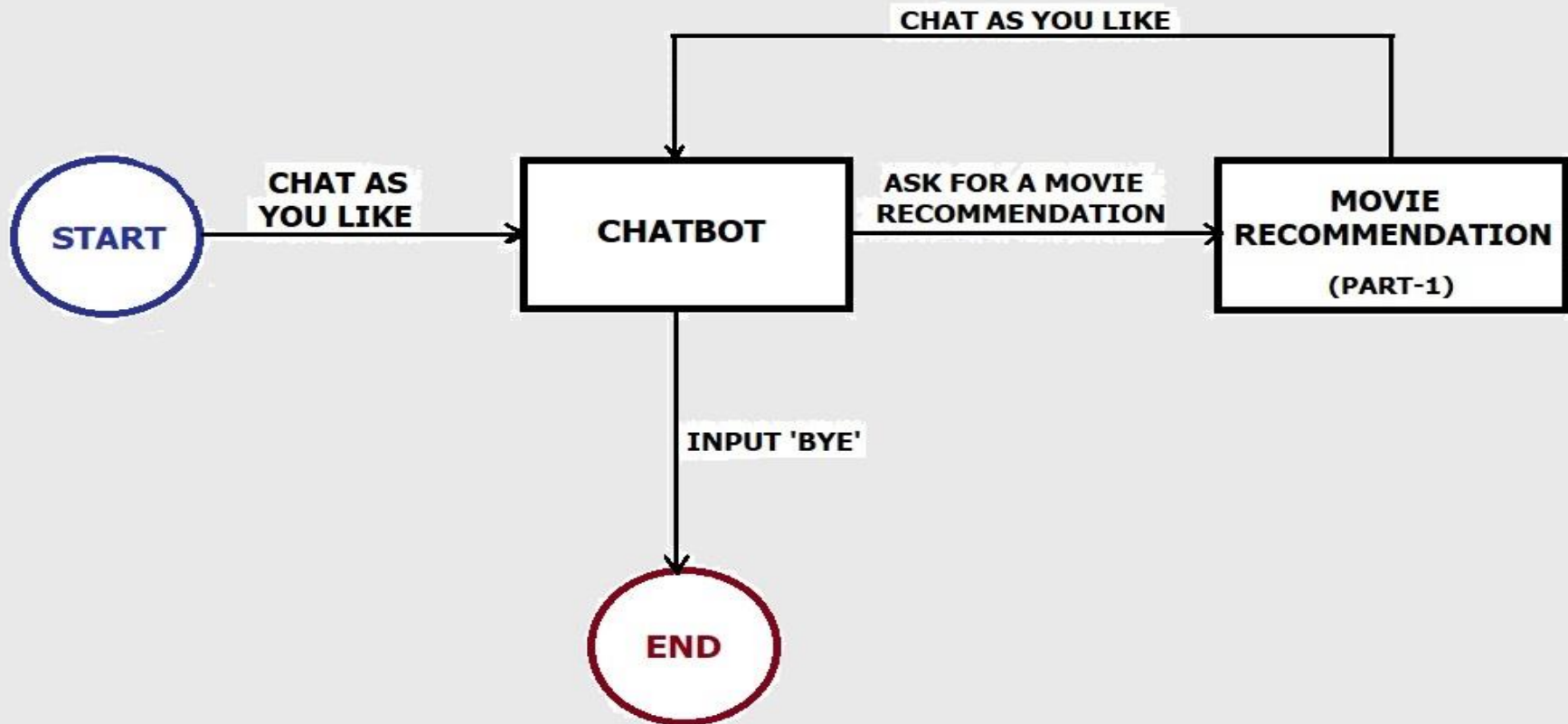
# OVERVIEW

Our project focuses on recommending movies based on a random query of the user by using the cosine similarity algorithm. The whole process is carried through an offline chatbot.

# FLOWCHART-I



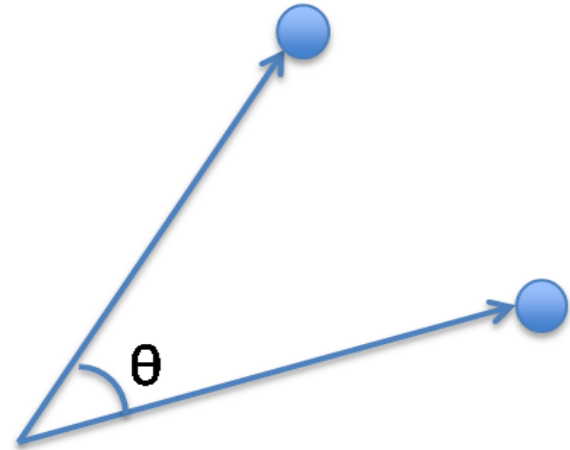
# FLOWCHART-II



# COSINE SIMILARITY

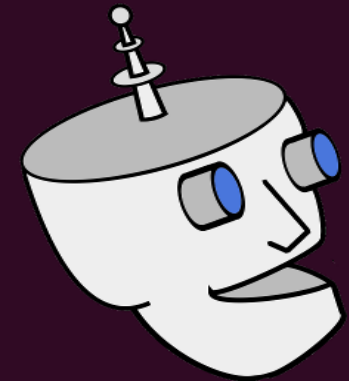
Cosine Similarity measures the similarity between two vectors irrespective of their size. It is measured by the cosine of the angle between two vectors and determines whether two vectors are pointing in roughly same direction.

$$\text{sim}(A, B) = \cos(\theta) = \frac{A \cdot B}{\|A\| \|B\|}$$



# CHATTERBOT

ChatterBot is a python library that makes it easy to generate automated responses to a user's input. It uses a selection of machine learning algorithms to produce different types of responses.



# ChatterBot

Machine learning, conversational dialog engine.



# SCREENSHOTS

List Trainer: [#####] 100%

Me: hello

Bot: - Heyy

Me: what's your name

Bot: - Whatever you name me. I call myself a MovieBot.

Me: what can you do

Bot: - I recommend movies to a user.

Me: help me to search

Bot: - Tell me what movie would you like to watch

Me: i want akshay kumar movie

Bot:           original\_title cosine\_sim

2378 Action Replay 0.278543

7263 Khakee 0.258199

557 Brothers 0.235702

Me: bye

Bot: Bye. See you again.

In [2]:

IPython console

History log

Permissions: RW

End-of-lines: CRLF

Encoding: UTF-8

Line: 139

Column: 14

Memory: 71 %

# WHAT'S NEXT?

As of now, we've completed the movie recommendation part which is the core of our project. And also, we have carried out the whole process through a chatbot to let a user have a little chit-chat while choosing a movie.

The future work could be:

- Improving the dataset of the chatbot to get more accurate responses.
- Prepare a graphical user interface for the chatbot to make it look pleasing.



# REFERENCES

- <https://www.udemy.com/course/machinelearning/>
- <https://www.kaggle.com/rounakbanik/the-movies-dataset>
- [https://medium.com/@paritosh\\_30025/natural-language-processing-text-data-vectorization-af2520529cf7](https://medium.com/@paritosh_30025/natural-language-processing-text-data-vectorization-af2520529cf7)
- [https://en.wikipedia.org/wiki/Cosine\\_similarity](https://en.wikipedia.org/wiki/Cosine_similarity)
- <https://data-flair.training/blogs/python-chatbot-project/>