**CHATBOT IN PYTHON**

**PART-1**

**PROBEM DEFINITION AND DESIGN THINKING**

We can define the Chabot’s into two categories, following are the two categories of Chabot’s:

1. Rule based Approach
2. Self-learning Approach

Rule based Approach:

In this approach, a bot is trained according to rules. Based on this a bot can answer simple queries but sometimes fails to answer complex queries.

Self-learning Approach:

These bots follow the machine learning approach which is rather more efficient and is further divided into two more categories.

* **Retrieval-Based Models** – In this approach, the bot retrieves the best response from a list of responses according to the user input.
* **Generative Models** – These models often come up with answers than searching from a set of answers which makes them intelligent bots as well.

**DESIGN**:

* It must instantly reply with the necessary feeds and information.
* Relevant information should be provided.
* Voice recognition feature should also be added in future.