

CREATING A CHATBOT IN PYTHON

INTRODUCTION

ChatBot can be described as software that can chat with people using artificial intelligence. These software are used to perform tasks such as quickly responding to users.

The Chatbot is majorly used to solve the problems that experienced by the user. The ChatBot makes it much more easier to resolve the problem experience by the user.

A ChatBot is an automated conversational AI that pretends to be human and carries out programmed tasks based on specific triggers, responding through a web. They are conversational tools that perform routine tasks efficiently.

PROBLEM DEFINITION

An Educational Chatbot is a computer program designed to facilitate learning and provide information in a conversational manner. It leverages artificial intelligence and natural language processing to interact with users, answer questions, offer explanations, and deliver educational content. These chatbots can cover a wide range of subjects and topics, from general knowledge to specific academic disciplines. In this project, we present the general working principle of how do the educational chatbots works and how it widely contribute to expand our knowledge by the immediate response from the bot to our required queries. Educational sectors are being transforming into digitalization to prove their significance. Edubots plays a major role in the educational sector in terms of savings time and effort. Our purpose on creating this educational chatbot is to reduce the efforts for the people working in educational domain which are useful for personalized message to answer the learning content desired by the user.

DESIGN THINKING

- **DEFINE:** Clearly defining the problems or the queries to the Edubot what you are looking for.
- **IDEATION:** Encouraging creativity and generating a range of possible solutions for different queries.
- **DEVELOP:** Begin to develop our educational chatbot by integrating features and content that align with the defined educational goals.
- **SCALABILITY:** Designing the chatbot architecture to be scalable, as educational institutions may have varying numbers of users and different requirements.
- **TESTING:** Conducting usability testing with real users to evaluate the effectiveness of our chatbot's design. Identifying and fixing issues if any arise.
- **IMPLEMENT:** Launching the Edubot for a broader audience. Ensure that the chatbot is easily accessible through web platforms or apps.
- **TRAINING AND SUPPORT:** Providing training and support for educators and students on how to effectively use the chatbot as an educational tool.