

Chay Nuoc Rut

APPLY CHATBOT FOR SHOPPING

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Problem Statement

Identifying the Problem

The human resources available for online marketplace moderation are decreasing, unable to meet the increasing demands of customer requirements

Disadvantages

The chat overload, slow response to messages, and ineffective interaction with customers have resulted in a decreasing business turnover for the company

Competitive Landscape

Many companies have begun integrating AI into customer messaging to reduce human resources and boost revenue

Solution Overview

AI-Based Solution

Our MVP proposes an Artificial Intelligence (AI)-based solution to address the identified problem. This solution employs a chatbot model based on the Chatfuel platform to facilitate intelligent interactions and provide information

Unique Aspects

Implementing the BERT model to enhance the understanding and responsiveness of the chatbot. Meeting business needs uniquely by integrating custom features, such as incorporating CRM systems to provide personalized information and the best services for customers



Methodologies

AI Model Architecture using Chatfuel

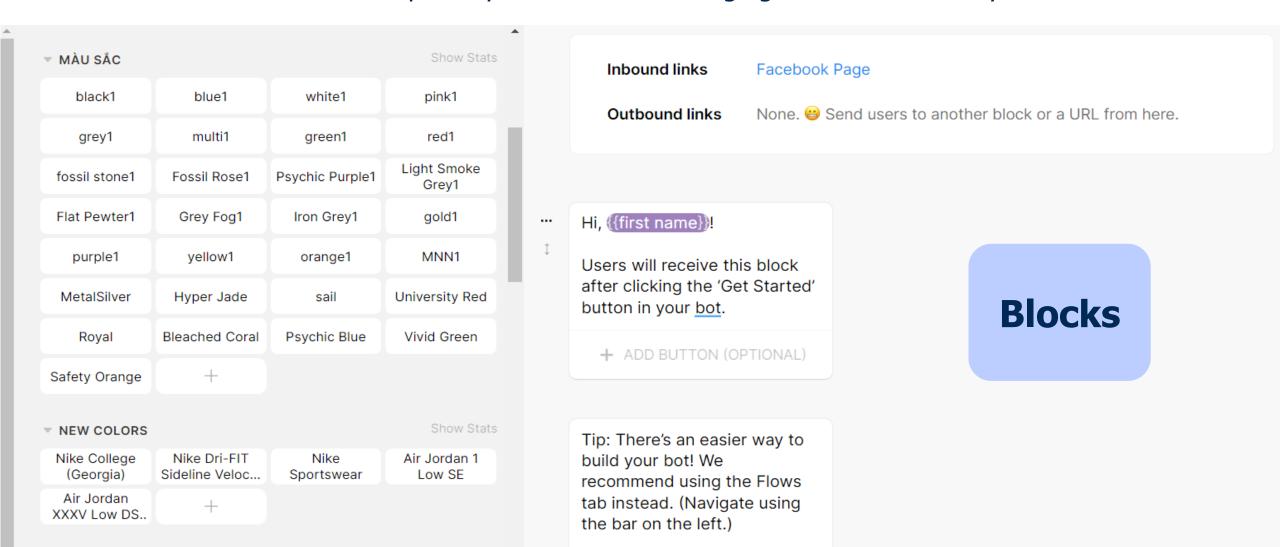
This is a data-driven architecture with the ability to automate tasks and interact with users through a chat interface on Messenger





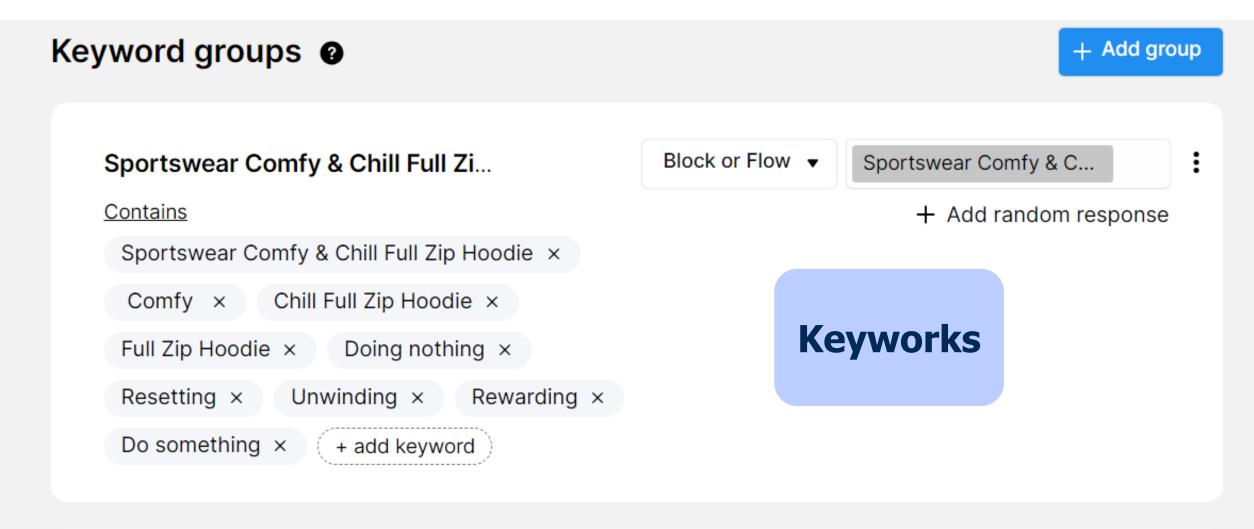
Key Components, Layers, and Modules

Chatfuel Interface: The primary interface for managing bot blocks and keywords



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Key Components, Layers, and Modules

The main modules of the model

Question Processing

Contains rules for understanding and responding to diverse user queries

Sales

Includes functions for product introduction, order processing, and providing pricing information

Social Interaction

Contains features for interacting on social platforms, such as responding to customer messages





Python -

data processing



Power BI

draw graphs to analyze data



Chatfuel -

build chatbots



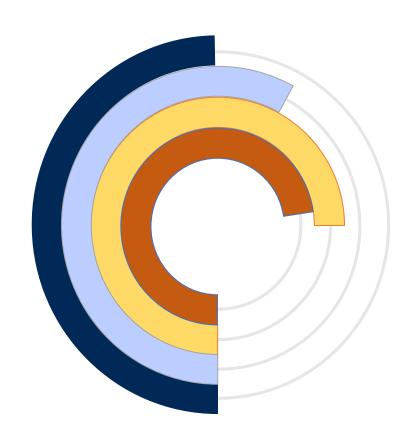
Facebook —

chat interface

Core Functionality

- Basic Communication: understand and respond to basic user questions
- Product Information: provide basic information about products or services
- API Integration: The ability to connect and fetch information from external sources through APIs

Performance Metrics

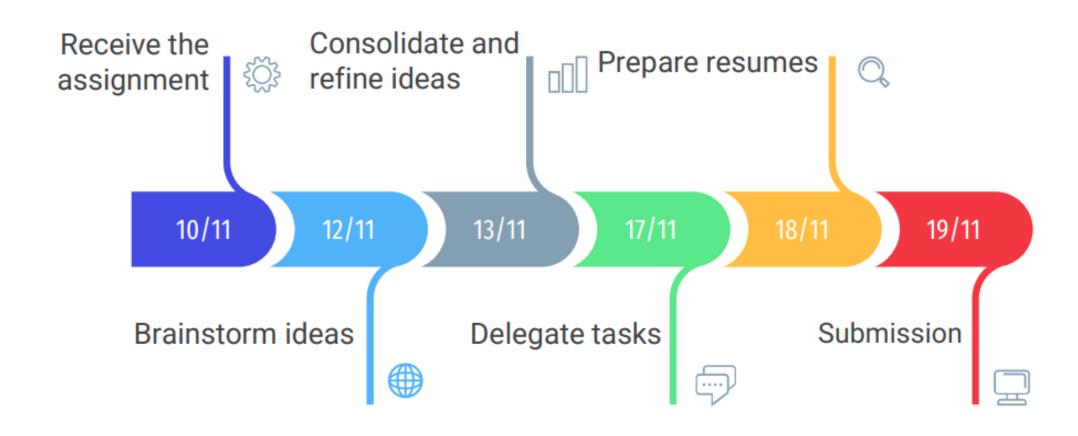


Accuracy: Evaluates the precision of the chatbot's responses to user queries

Response Time: Measures the duration it takes for the chatbot to reply after receiving a request from the user

Successful Interactions: Counts instances where users interact without encountering significant issues.

Time line



start

Hi Tâm.

Do you want to buy Adidas or Nike products?

Adidas

Nike

If you want to start from the beginning please enter "start again" and to end the conversation please enter "end"

Adidas

Okay, I will advise you on the brand's productsAdidas

Do you want to search for the product by color or its features?

Colors

Could you provide some information about the color of the product you would like to purchase?

Please choose a color or enter the color you want to parch for.

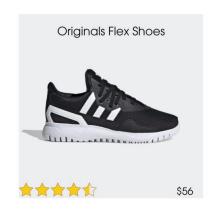
Please choose a color or enter the color you want to search for.

These are the colors within the Adidas brand that we have.

Black

These are some of our black products

Choose the product you would like to learn more about by entering the product name or clicking on the image to view it directly on the website.



Users will interact
with the chatbot
through a page we
create on Facebook.
They can engage
with AI-powered
features through a
visual chat interface

đ

Originals Flex Shoes

InStock



Limitations and Improvements for the Future

Feature Scope

MVP performance relies heavily on the quality and quantity of training data. Data limitations may lead to inaccuracies or incomplete responses

Complex Language Interaction

MVP is encountering difficulties in understanding correctly and providing accurate responses

Data

The MVP not support some complex or specialized requests, limiting its ability to handle specific tasks

Limitations and Improvements for the Future

Enhancing Training Data

Increasing data collection and training the model with a more diverse and extensive dataset

Expanding Features

Developing and integrating additional features to expand the MVP's scope and capabilities, especially in areas requiring complexity

Language Optimization

continuously refining and optimizing the model to improve language understanding and natural language interaction

Our MVP proposes an Artificial Intelligence (AI)-based solution to address the identified problem. This solution employs a chatbot model based on the Chatfuel platform to facilitate intelligent interactions and provide information.

Meeting business needs uniquely by incorporating custom features such as integrating CRM systems to provide personalized information and deliver the best services to customers

A prominent solution involves leveraging the BERT model to enhance the comprehension and responsiveness of the chatbot. This model is fine-tuned for specific contexts to ensure optimal performance

We believe that this innovation will have a positive impact and create value for businesses in general, especially online enterprises, while simultaneously providing positive experiences and the best services for their customers.

THANK YOU!