

Building Intelligent Chatbots with Python: Harnessing the Power of AI for Seamless Conversations

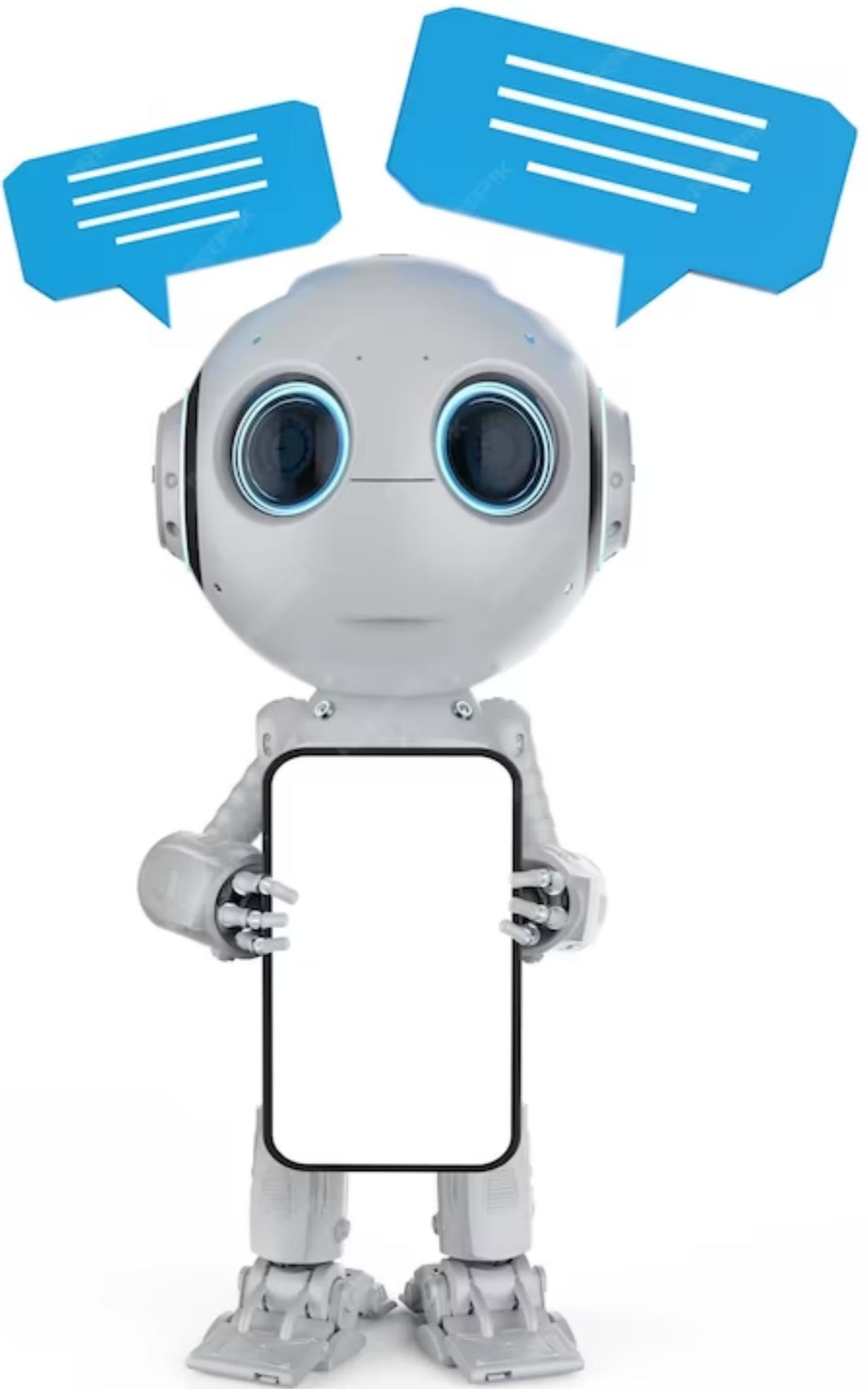
Introduction

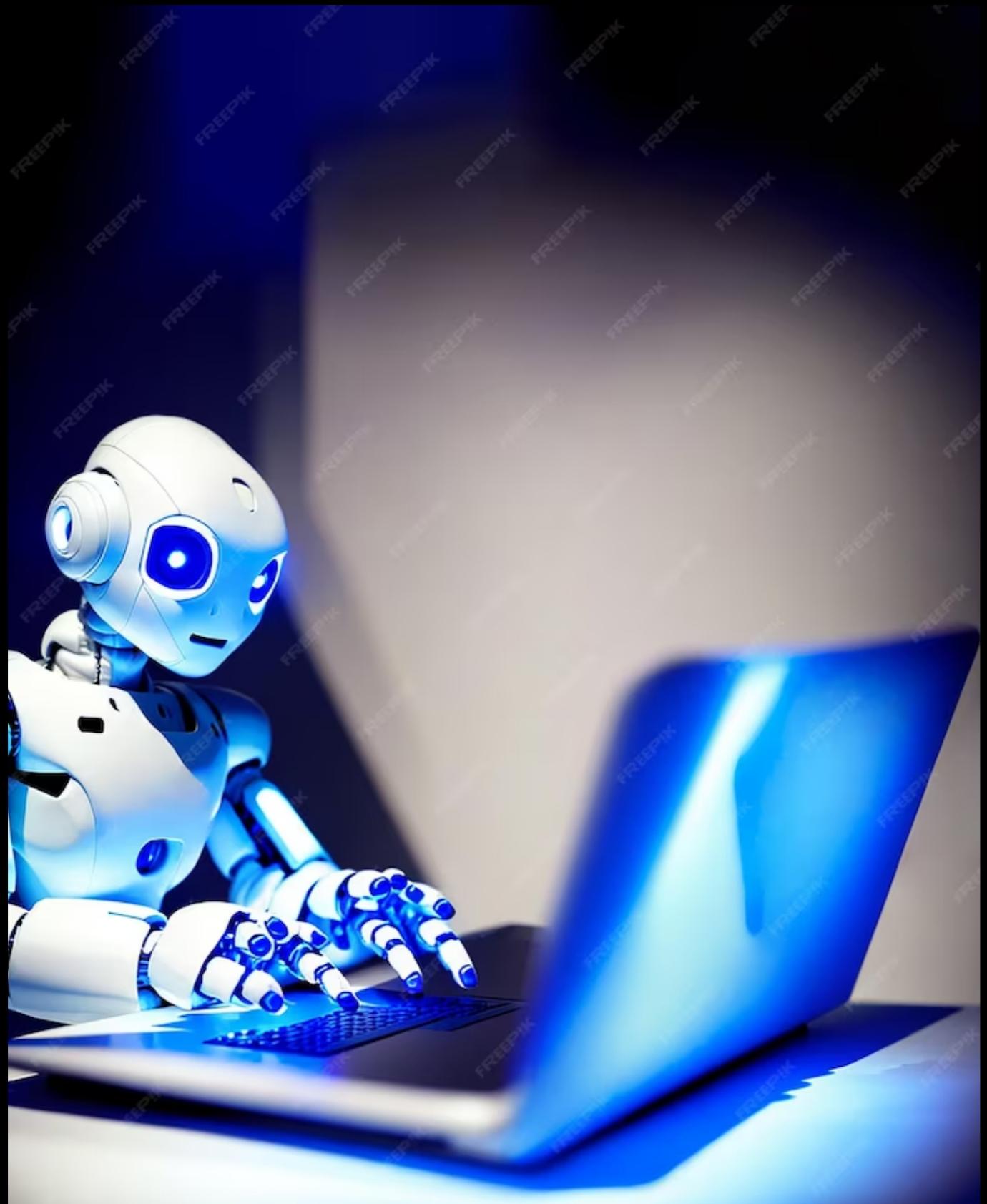
Welcome to the world of building intelligent chatbots with Python! In this presentation, we will explore how to harness the power of AI to create seamless conversations. We will cover key concepts, tools, and techniques to develop chatbots that can understand and respond to user queries. Get ready to dive into the exciting realm of chatbot development!



What are Chatbots?

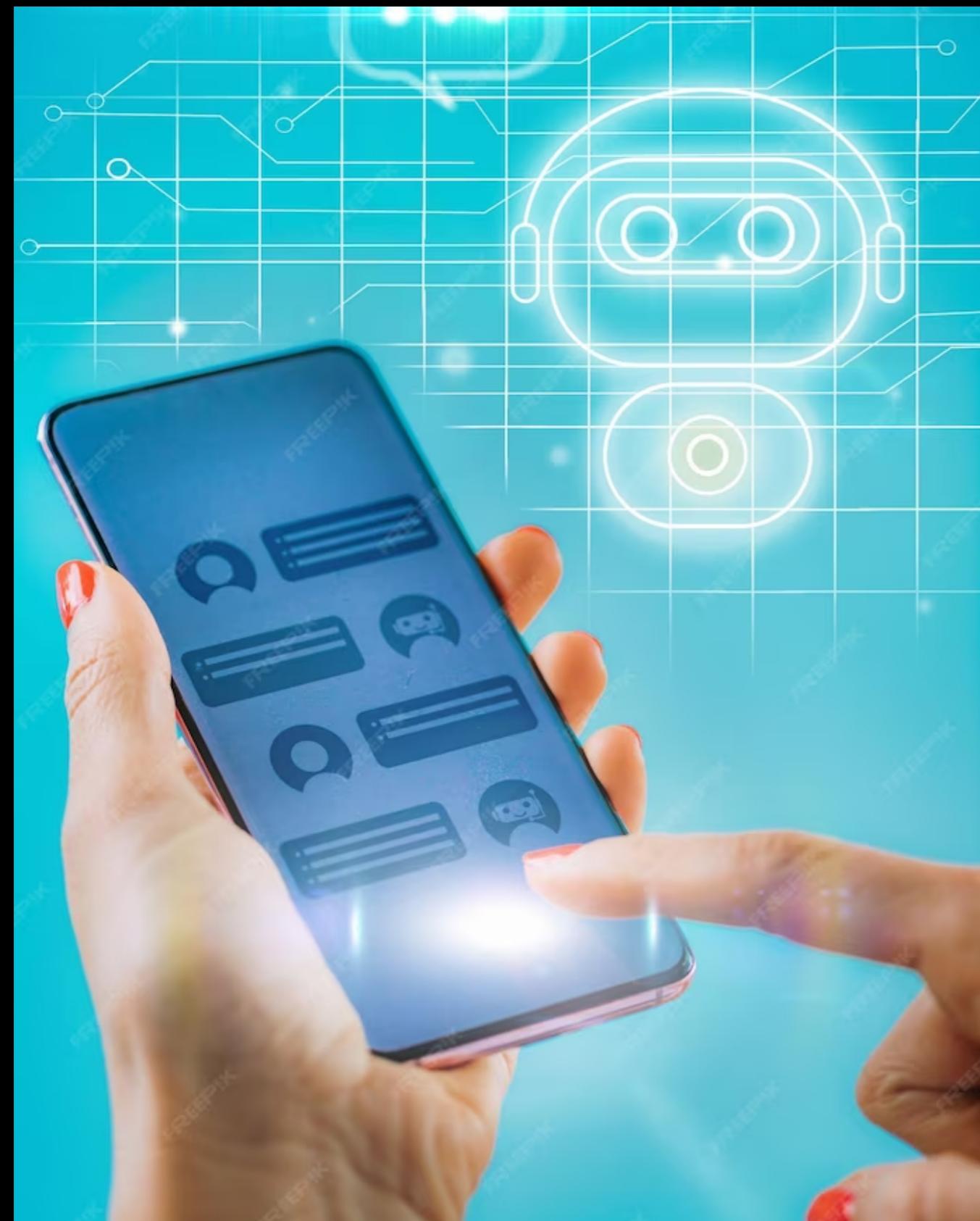
Chatbots are computer programs designed to simulate human conversations. They leverage natural language processing and machine learning techniques to understand and respond to user inputs. With Python, we can build chatbots that can handle a wide range of tasks, from answering FAQs to providing personalized recommendations. Let's explore the fascinating world of chatbot development!





Why Python for Chatbots?

Python is an ideal programming language for building chatbots due to its simplicity, versatility, and rich ecosystem of libraries. With Python, we can leverage powerful AI frameworks like TensorFlow and PyTorch to develop intelligent chatbots that learn from data and improve over time. Let's discover why Python is the go-to language for chatbot development!



Natural Language Processing (NLP)

Natural Language Processing (NLP) is a branch of AI that focuses on enabling computers to understand and process human language. By applying NLP techniques, we can equip our chatbots with the ability to comprehend user queries, extract relevant information, and generate appropriate responses. Let's delve into the world of NLP and its significance in chatbot development!



Machine Learning for Chatbots

Machine Learning plays a crucial role in building intelligent chatbots. By training models on large datasets, chatbots can learn patterns, make predictions, and generate contextually relevant responses. We will explore various ML techniques such as supervised learning, unsupervised learning, and reinforcement learning that can enhance chatbot capabilities.

Building a Chatbot: Workflow

Developing a chatbot involves several key steps. We will walk through the workflow, starting from defining the chatbot's purpose and designing its conversational flow. We will then explore techniques for data collection, preprocessing, and training. Finally, we will discuss deployment options and strategies for continuous improvement.

Let's build an intelligent chatbot from scratch!





Key Components of Chatbots

Chatbots consist of various components that work together to enable seamless conversations. We will explore the importance of intent recognition, entity extraction, and context management in chatbot development. Additionally, we will discuss the role of dialog management and response generation algorithms. Let's dive into the inner workings of chatbots!

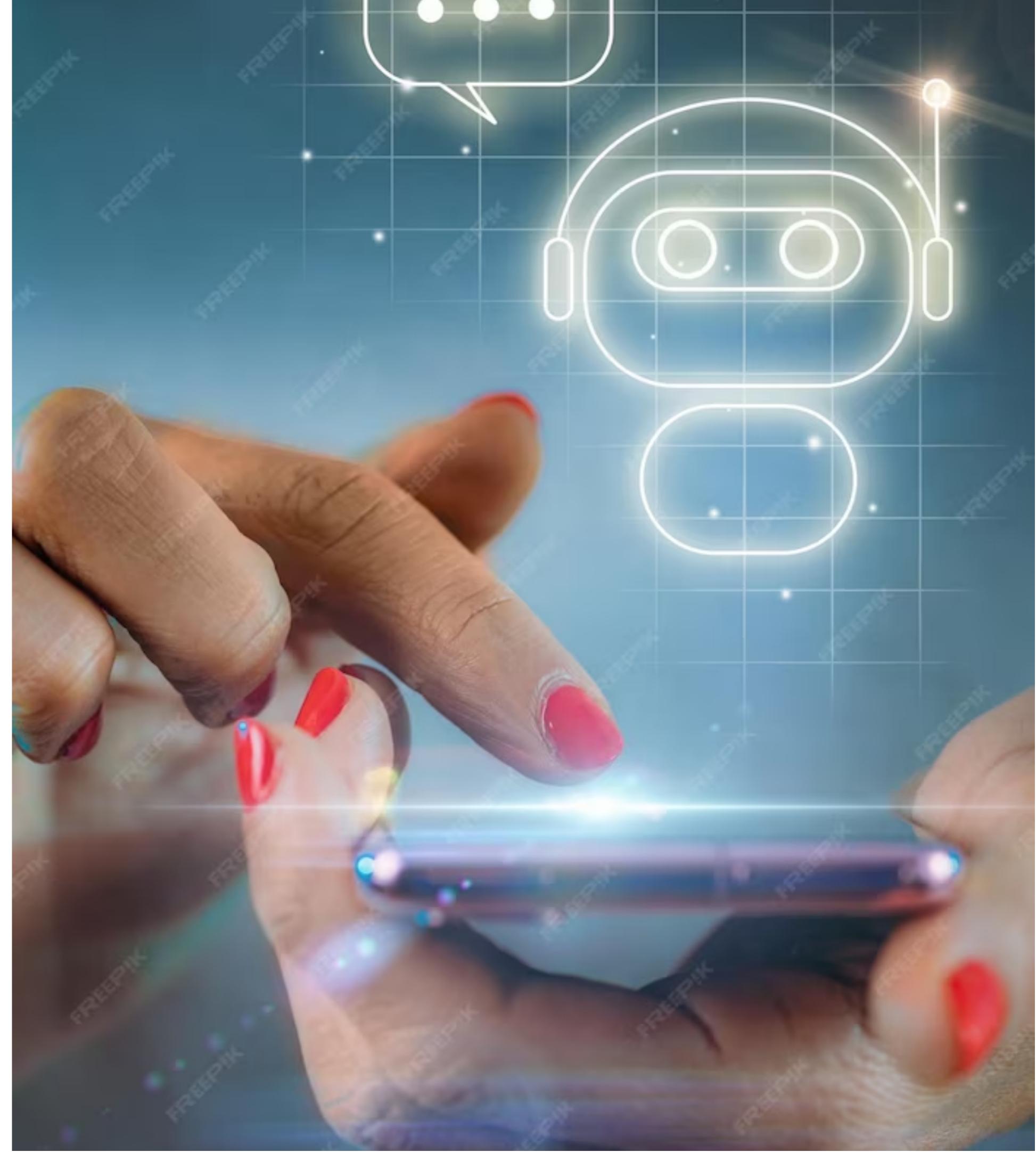


Dialog Management Techniques

Dialog management is crucial for chatbots to maintain coherent and contextually relevant conversations. We will explore techniques such as rule-based systems, finite state machines, and reinforcement learning-based approaches to manage dialog flow. By understanding these techniques, we can create chatbots that engage users effectively and provide satisfying experiences.

Evaluating Chatbot Performance

Measuring the performance of chatbots is essential to ensure their effectiveness. We will discuss evaluation metrics such as accuracy, precision, recall, and F1 score. Additionally, we will explore user-centric evaluation techniques like user satisfaction surveys and A/B testing. Let's learn how to assess and improve the performance of our chatbots!





Chatbot Deployment Options

Once we have built our chatbot, we need to deploy it to interact with users. We will explore various deployment options, including web-based interfaces, messaging platforms, and voice assistants. Additionally, we will discuss considerations for scalability, security, and maintenance. Let's explore the different ways to make our chatbots accessible to users!

Chatbot Ethical Considerations

As chatbot developers, we must be mindful of ethical considerations. We will discuss topics such as privacy, data security, bias, and transparency. It's important to design chatbots that respect user privacy, handle sensitive information responsibly, and avoid reinforcing harmful biases. Let's build ethical chatbots that provide inclusive and trustworthy experiences!



Real-World Applications

Chatbots have found applications in various industries, from customer support to healthcare and finance. We will explore real-world examples of chatbots in action, showcasing their benefits and impact. By understanding these applications, we can gain insights into how chatbots are transforming different sectors and improving user experiences.





Challenges in Chatbot Development

Building intelligent chatbots comes with its fair share of challenges. We will discuss common hurdles such as language understanding, context handling, and user engagement. Additionally, we will explore strategies to overcome these challenges and create chatbots that deliver exceptional conversational experiences. Let's tackle the challenges in chatbot development head-on!



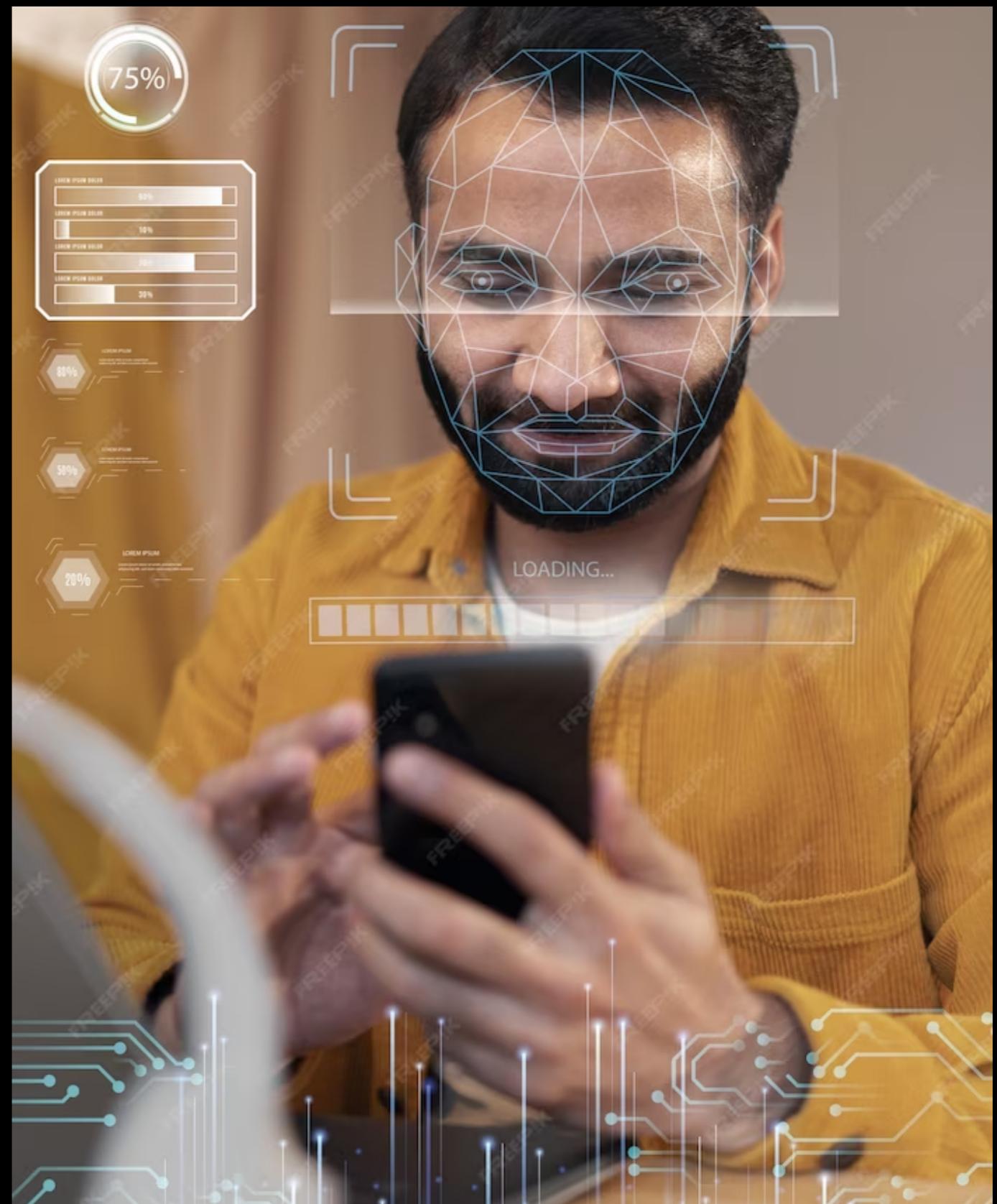
Future Trends in Chatbot Development

The field of chatbot development is constantly evolving. We will explore emerging trends such as multi-modal chatbots, voice-enabled assistants, and chatbot-human collaboration. Additionally, we will discuss the potential impact of advancements in AI technologies like GPT-3 and transformers. Let's look into the future of chatbot development!

Best Practices for Chatbot Development

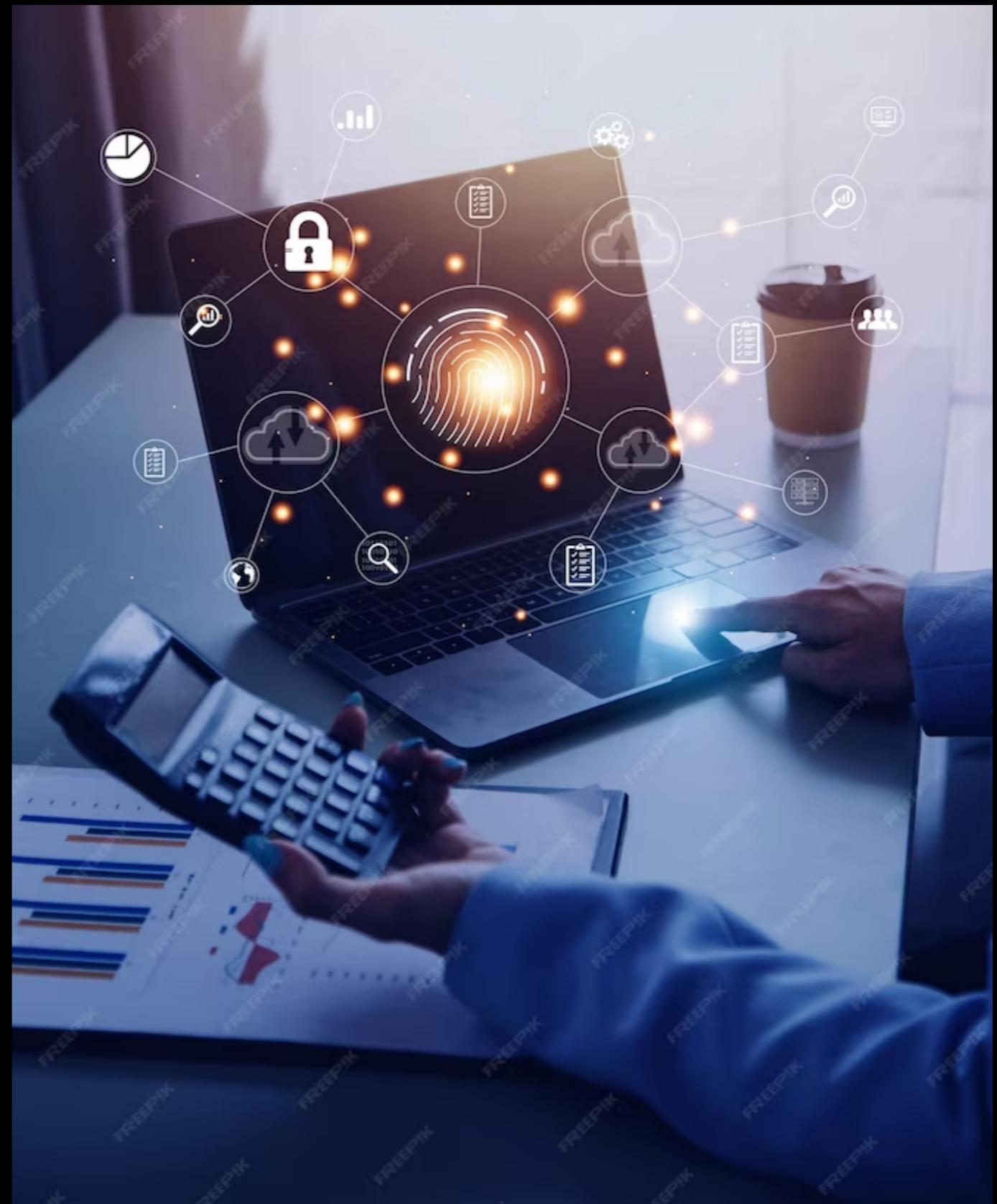
To ensure the success of our chatbot projects, we should follow best practices. We will discuss guidelines for designing intuitive user interfaces, collecting high-quality training data, and continuously refining chatbot performance.

Additionally, we will explore ways to gather user feedback and iterate on our chatbot designs. Let's adopt best practices for chatbot development!



Case Study: Building a Python Chatbot

In this case study, we will walk through the process of building a Python chatbot from scratch. We will cover the entire workflow, from defining the chatbot's purpose to deploying and evaluating its performance. By following this case study, you will gain practical insights into building your own chatbot projects with Python.





Tips for Successful Chatbot Projects

To ensure the success of our chatbot projects, let's keep a few tips in mind. We should define clear project goals, collaborate effectively with stakeholders, and prioritize user experience. Additionally, we should continuously monitor and improve chatbot performance based on user feedback. Let's strive for successful chatbot projects!

Conclusion

Congratulations on completing the journey of building intelligent chatbots with Python! We have explored the key concepts, techniques, and challenges in chatbot development. Armed with this knowledge, you are now ready to create your own chatbots that can engage users in seamless conversations. Thank you for joining this presentation!

Thanks!

Do you have any questions? addyouremail@freepik.com
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yourcompany.com



Development chatbot in python

Creating a chatbot in Python involves several steps. Here's an overview of the typical process:

1. **Define the Purpose**: Clearly define the purpose of your chatbot. Is it for customer support, answering FAQs, or something else?
2. **Data Collection**: Gather or generate a dataset of conversations. This dataset will be used for training your chatbot.
3. **Preprocessing**: Clean and preprocess the data. This may involve removing special characters, lowercasing, and tokenization.
4. **Feature Engineering**: Extract features from the data that can be used as input to your chatbot model. Common features include user messages, timestamps, and more.
5. **Model Selection**: Choose a suitable model architecture for your chatbot. Recurrent Neural Networks (RNNs), Transformers, or retrieval-based models are common choices.
6. **Training**: Train your chatbot model on your preprocessed dataset. This step may take a considerable amount of time and computational resources.
7. **Evaluation**: Evaluate your model's performance using appropriate metrics. Common metrics include accuracy, precision, recall, and F1 score.
8. **Fine-Tuning**: Based on the evaluation results, fine-tune your model to improve its performance.
9. **Integration**: Integrate your chatbot with a messaging platform or a website, depending on your use case.
10. **Testing**: Test your chatbot with real users or in a simulated environment to ensure it functions correctly.
11. **Deployment**: Deploy your chatbot to a production environment. Consider scalability, security, and maintenance.
12. **Monitoring**: Continuously monitor the chatbot's performance and gather user feedback for further improvements.

Remember, specific instructions and libraries may vary depending on the framework and tools you're using. It's essential to refer to the documentation of the libraries and frameworks you choose for building your chatbot.

Program:

```
import random

# Define responses
responses = {
    "hello": ["Hi there!", "Hello!", "Hey!"],
    "how are you": ["I'm just a computer program, but I'm doing well. How about you?", "I don't have feelings, but thanks for asking!"],
    "what's your name": ["I'm a chatbot.", "I don't have a name. You can call me ChatGPT."],
    "bye": ["Goodbye!", "See you later!", "Have a great day!"]
}

# Function to get a response
def get_response(input_text):
    input_text = input_text.lower()
    for key in responses:
        if key in input_text:
            return random.choice(responses[key])
    return "I don't understand that. Please ask another question."

# Main loop for chat
while True:
    user_input = input("You: ")
    if user_input.lower() == "exit":
        print("Chatbot: Goodbye!")
        break
    response = get_response(user_input)
    print("Chatbot:", response)
```



Create a chatbot in python

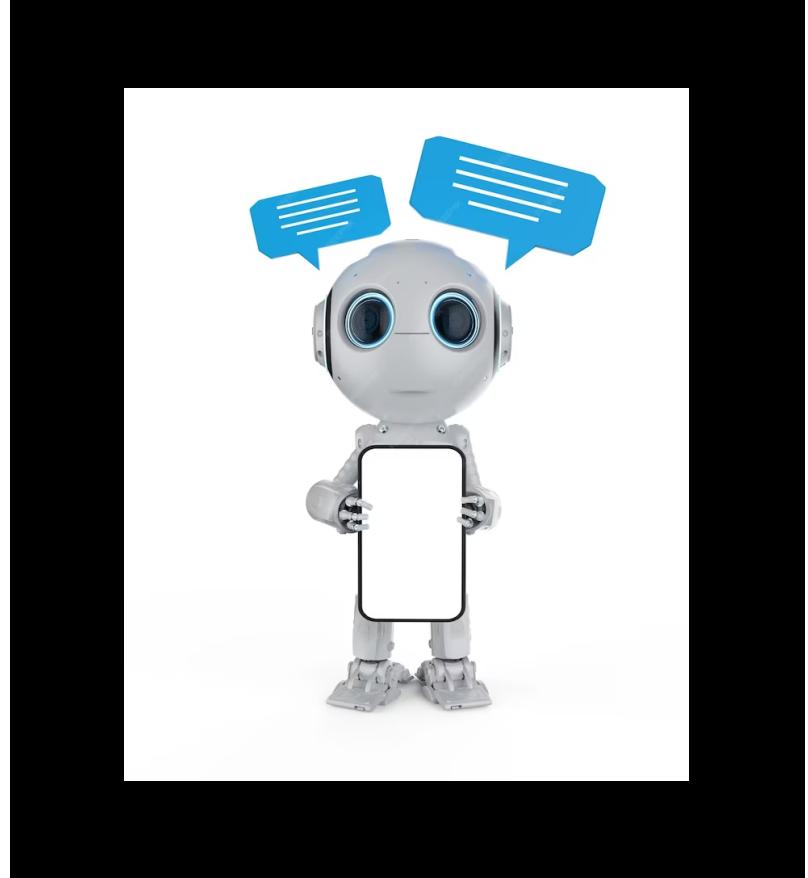


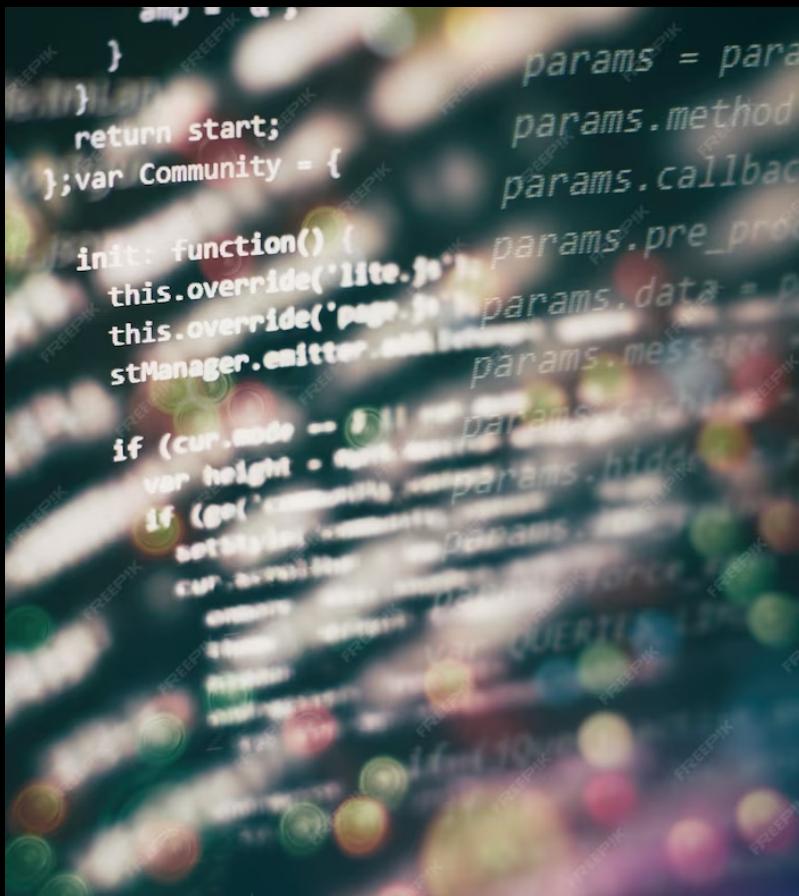
Introduction

Welcome to the presentation on *Python-Powered Chatbot: Innovating Development with Artificial Intelligence*. In this presentation, we will explore the capabilities of Python in building intelligent chatbots that revolutionize the development process. Join us on this journey to discover how Python can empower your projects.

Understanding Chatbots

Chatbots are *AI-powered virtual assistants* that can simulate human-like conversations. They leverage natural language processing and machine learning algorithms to understand user queries and provide relevant responses. With Python, developers can easily build chatbots with advanced functionalities, such as sentiment analysis, entity recognition, and context-awareness.



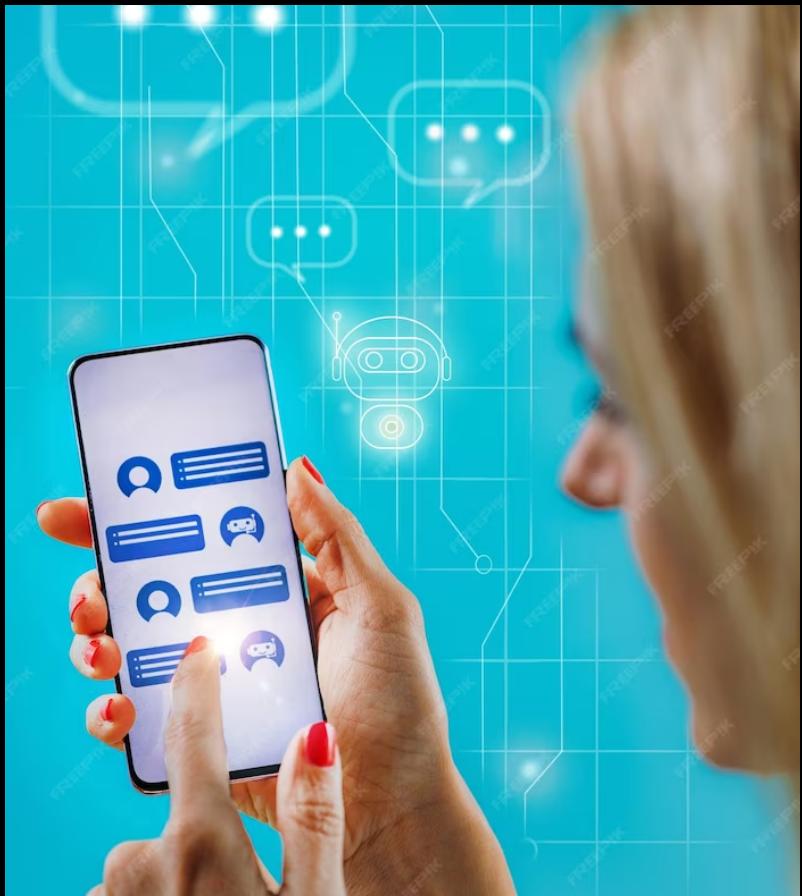


Python for Chatbot Development

Python's simplicity, versatility, and extensive libraries make it an ideal choice for chatbot development. With libraries like *NLTK*, *spaCy*, and *TensorFlow*, developers can implement powerful natural language processing capabilities. Python's robust ecosystem also offers frameworks like *Django* and *Flask* for building chatbot web interfaces and integrating with other systems.

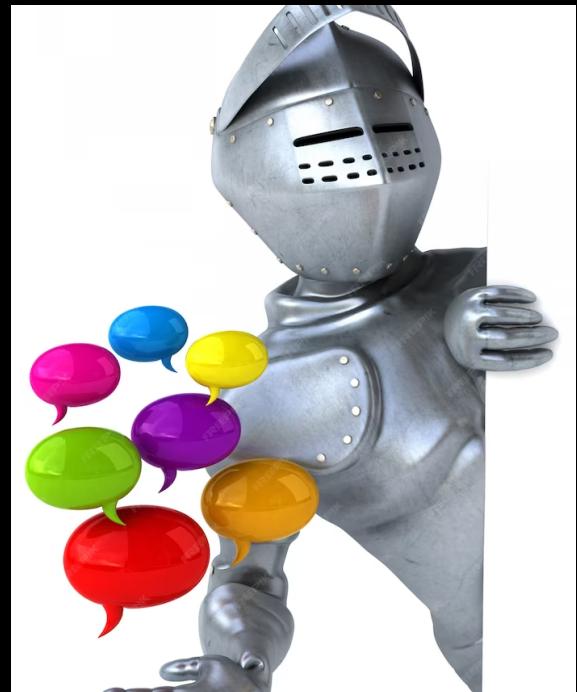
Enhancing User Experience

Python-powered chatbots can significantly enhance user experience by providing *24/7 support*, instant responses, and personalized interactions. Through machine learning algorithms, chatbots can continuously learn and improve their responses, ensuring better user satisfaction. Python's flexibility enables developers to easily integrate chatbots with various platforms, including websites, messaging apps, and voice assistants.



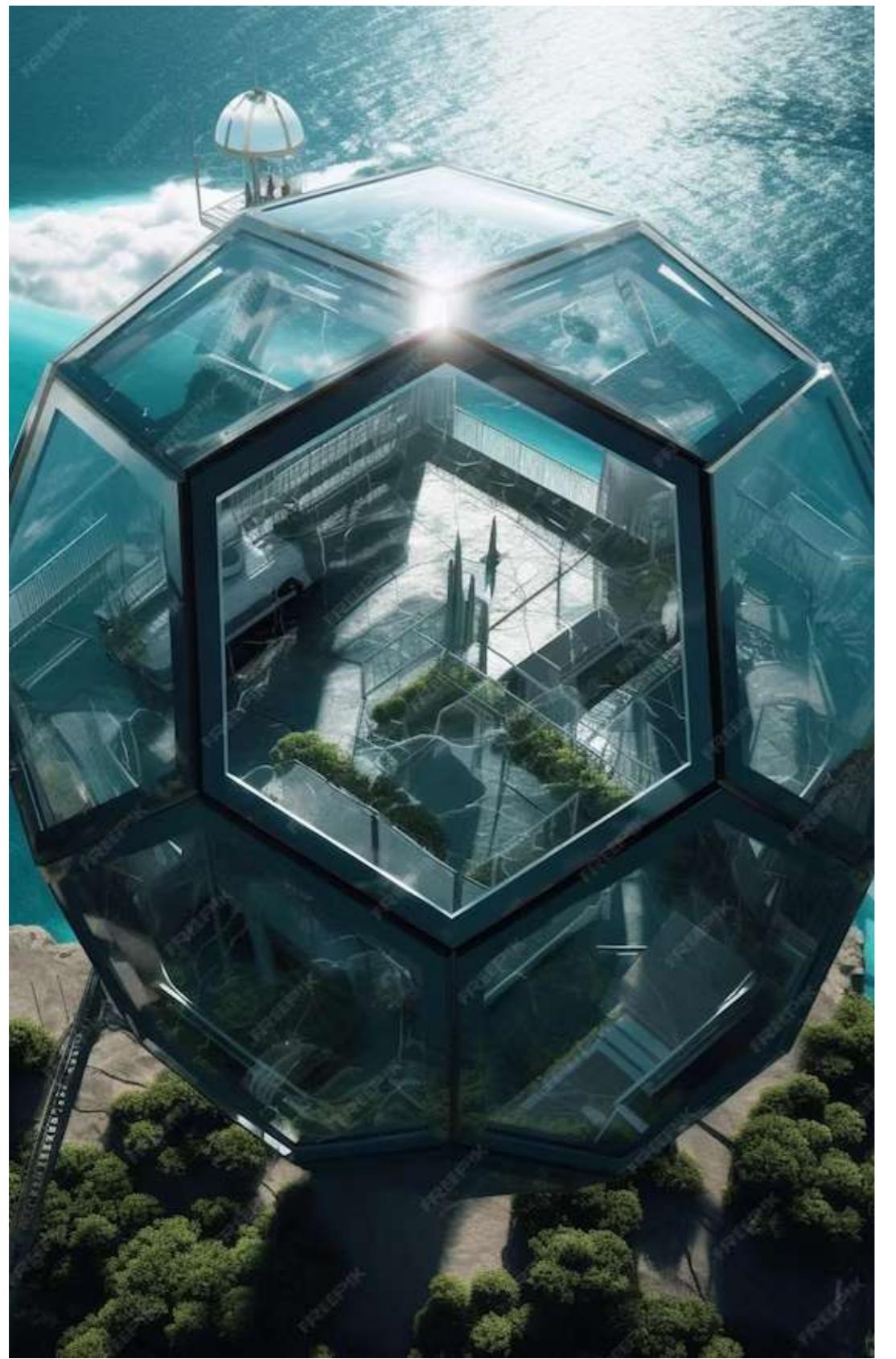
Real-world Applications

Python-powered chatbots have a wide range of real-world applications. They can be used for customer support, lead generation, e-commerce assistance, appointment scheduling, and much more. By automating repetitive tasks and providing instant assistance, chatbots streamline business processes and improve operational efficiency. Python's extensive libraries and frameworks enable developers to create chatbots tailored to specific industry needs.



Conclusion

Python's integration of artificial intelligence and chatbot development opens up exciting possibilities for innovation. Its simplicity, versatility, and extensive libraries make it a powerful tool for building intelligent chatbots. By leveraging Python's capabilities, developers can transform the way we interact with technology. Embrace the power of Python and unlock the potential of chatbot-driven development.



PREDICTING HOUSE PRICES USING MACHINE LEARNING



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ABSTRACT

Real estate is the least transparent industry in our ecosystem. Housing prices keep changing day in and day out and sometimes are hyped rather than being based on valuation. Predicting housing prices with real factors is the main crux of our research project. Here we aim to make our evaluations based on every basic parameter that is considered while determining the price. We use various regression techniques in this pathway, and our results are not sole determination of one technique rather it is the weighted mean of various techniques to give most accurate results.

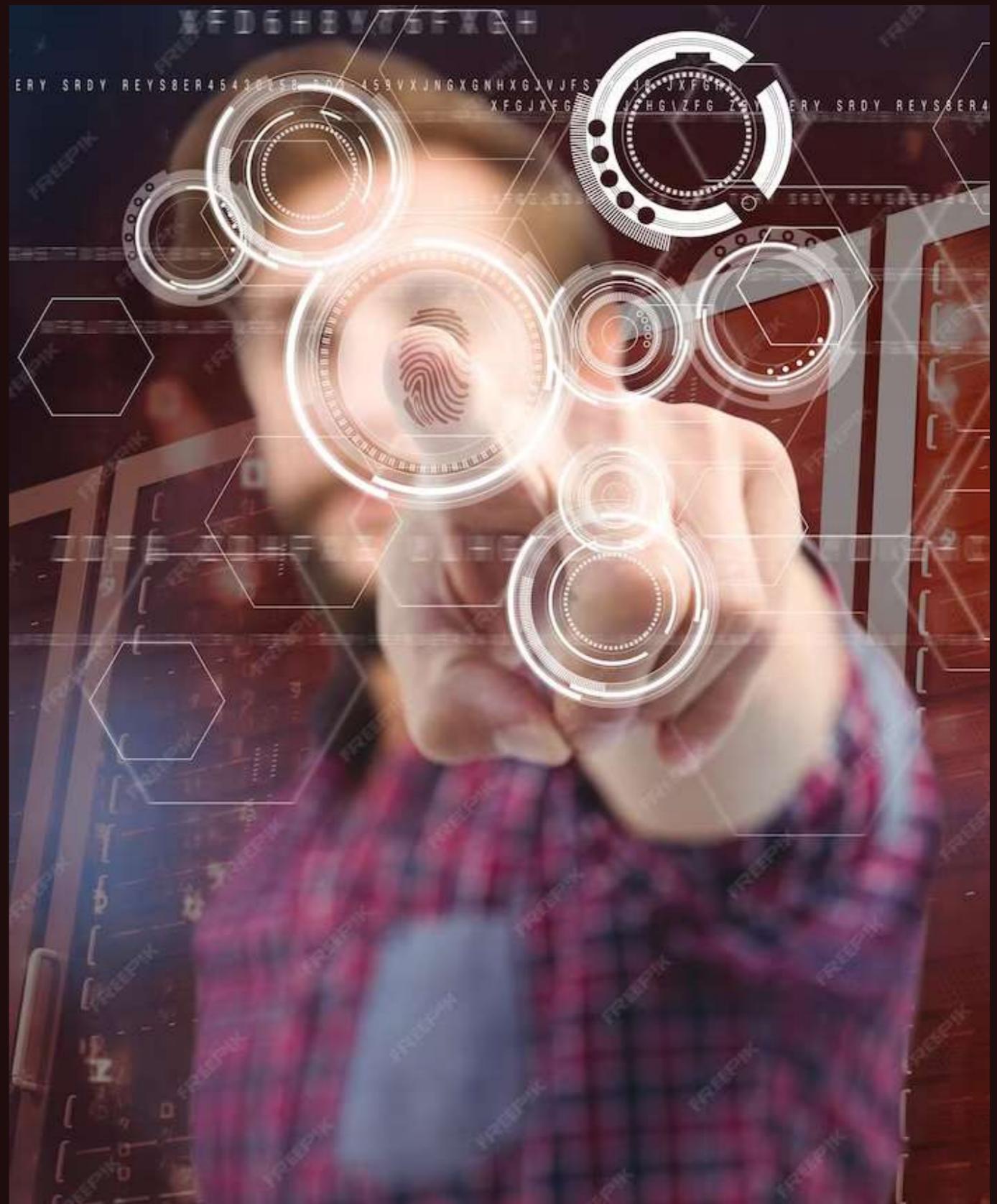


Predicting House Prices

Now comes the exciting part! By feeding new data into the trained machine learning model, we can predict house prices with remarkable accuracy. This empowers stakeholders to make informed decisions when buying, selling, or investing in real estate, ultimately revolutionizing the industry.

Machine Learning Basics

Machine learning is a subset of *artificial intelligence* that enables computers to learn and make predictions without being explicitly programmed. By analyzing vast amounts of *data*, machine learning algorithms can identify patterns and make accurate predictions. This technology has immense potential in predicting house prices.





Understanding House Prices

Before delving into the power of *machine learning*, let's understand the factors influencing house prices. Factors such as *location*, *size*, *amenities*, and *market demand* play a crucial role. Accurately predicting house prices can empower buyers, sellers, and investors to make informed decisions.



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EXISTING SYSTEM

Data is at the heart of technical innovations, achieving any result is now possible using predictive models. Machine learning is extensively used in this approach. Although development of correct and accurate model is needed. Previous algorithms like SVM are not suitable for complex real-world data.

PROPOSED SYSTEM

- Our main focus here is to develop a model which predicts the property cost based on vast datasets using data mining approach.
- The data mining process in a real estate industry provides an advantage to the developers by processing the data, forecasting future trends and thus assisting them to make favourable knowledge-driven decisions.
- Our dataset comprises of various essential parameters and data mining has been at the root of our system.
- We will initially clean up our entire dataset and also truncate the outlier values.
- Finally a system will be made to predict the Real Estate Prices using Deep Learning Approach.

FEASIBILITY STUDY

Basic areas to be covered are –

- Operational Feasibility: The applying can scale back the time consumed to take care of manual records and isn't dull and cumbersome to take care of the records, therefore operational practicability is assured.
- Technical Feasibility: Minimum hardware requirements: 1.66 GHz Pentium Processor or Intel compatible processor. 1 GB RAM net property, eighty MB disk area.



- Economical Feasibility :Once the hardware and software package needs get consummated, there's no want for the user of our system to pay for any further overhead. For the user, the applying are economically possible within the following aspects: the applying can scale back tons of labor work. therefore the efforts are reduced. Our application can scale back the time that's wasted in manual processes. The storage and handling issues of the registers are resolved .



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SYSTEM SPECIFICATIONS

Since this is an AI based Deep Learning approach, we are going to use a dataset extracting the features of houses and algorithmic models to train the dataset for predictions.

- Dataset- We are using an unsupervised dataset,i.e, data without class labels. The objective of this unsupervised technique, is to find patterns in data based on the relationship between data points themselves.

	A	B	C	D	E	F	G	H	I	J
1	-122.23	latitude	housing_median_total_rooms	total_bedrooms	population	households	median_income	median_house_ocean_proximity		
2	-122.22	37.88	41	880	129	322	126	8.3252	452600	NEAR BAY
3	-122.24	37.86	21	7099	1106	2401	1138	8.3014	358500	NEAR BAY
4	-122.25	37.85	52	1467	190	496	177	7.2574	352100	NEAR BAY
5	-122.25	37.85	52	1274	235	558	219	5.6431	341300	NEAR BAY
6	-122.25	37.85	52	1627	280	565	259	3.8462	342200	NEAR BAY
7	-122.25	37.85	52	919	213	413	193	4.0368	269700	NEAR BAY
8	-122.25	37.84	52	2535	489	1094	514	3.6591	299200	NEAR BAY
9	-122.26	37.84	52	3104	687	1157	647	3.12	241400	NEAR BAY
10	-122.25	37.84	42	2555	665	1206	595	2.0804	226700	NEAR BAY
11	-122.26	37.84	52	3549	707	1551	714	3.6912	261100	NEAR BAY
12	-122.26	37.85	52	2202	434	910	402	3.2031	281500	NEAR BAY
13	-122.26	37.85	52	3503	752	1504	734	3.2705	241800	NEAR BAY
14	-122.26	37.85	52	2491	474	1098	468	3.075	213500	NEAR BAY
15	-122.26	37.84	52	696	191	345	174	2.6736	191300	NEAR BAY
16	-122.26	37.85	52	2643	626	1212	620	1.9167	159200	NEAR BAY
17	-122.27	37.85	50	1120	283	697	264	2.125	140000	NEAR BAY
18	-122.27	37.85	52	1966	347	793	331	2.775	152500	NEAR BAY
19	-122.26	37.85	52	1228	293	648	303	2.1202	155500	NEAR BAY
20	-122.27	37.84	50	2239	455	990	419	1.9911	158700	NEAR BAY
21	-122.27	37.84	52	1503	298	690	275	2.6033	162900	NEAR BAY



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- The dataset consists of more than 20,000 records.
- Around nine features are provided in the dataset like latitude, total rooms, total bedrooms etc.
- Data mining technique is used for processing of the dataset to extract relevant data to be further used in data models.

• Data model-The basic technique used for the model is Regression Analysis which is a statistical method to model the relationship between a dependent (target) and independent (predictor) variables with one or more independent variables. It predicts continuous/real values.



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- For our application we are using three types of algorithms to train the model, which are-
- **KN-Neighbors:** K nearest neighbors is a simple algorithm that stores all available cases and predict the numerical target based on a similarity measure (e.g., distance functions)
- **Support Vector Machine:** The goal of the SVM algorithm is to create the best line or decision boundary that can segregate n-dimensional space into classes so that we can easily put the new data point in the correct category in the future.
- **Artificial Neural Network(ANN):** It's a computational model in which artificial neurons are nodes, and directed edges with weights are connections between neuron outputs and neuron inputs.



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HARDWARE AND SOFTWARE REQUIREMENTS

SOFTWARE REQUIREMENTS-

- Python version- 3.8
- Libraries-
 - ✓ Pandas: library for manipulating data in numerical tables.
 - ✓ scikit-learn: machine learning library that features various classification, regression and clustering algorithms.
 - ✓ Matplotlib: Matplotlib is a plotting library for creating static, animated, and interactive visualizations in python.



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- ✓ Seaborn: library based on matplotlib. It provides a high-level interface for drawing attractive and informative statistical graphics
 - ✓ Tensorflow: The core open source library to help you build and train ML models.
 - ✓ Jupyterlab: JupyterLab is a web-based interactive development environment for Jupyter notebooks, code cells, and data.



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HARDWARE REQUIREMENTS-

- ✓ 1.66 GHz Pentium Processor or Intel compatible processor.
- ✓ 1 GB RAM
- ✓ 80 MB disk area.



Benefits of Predictive Models

Predictive models powered by machine learning offer numerous benefits. They enable buyers to estimate fair prices, sellers to set competitive prices, and investors to identify lucrative opportunities. By reducing uncertainty and providing data-driven insights, these models enhance decision-making and improve market efficiency.

Conclusion

In conclusion, *machine learning* has the potential to revolutionize the real estate industry by accurately predicting house prices. By leveraging comprehensive datasets, training models, and evaluating their performance, stakeholders can make informed decisions. Embracing this technology will enhance market efficiency and empower buyers, sellers, and investors.



Thank you

Gradient Boosting with scikit-learn:

pythonCopy code

```
from sklearn.ensemble import GradientBoostingRegressor from sklearn.model_selection import train_test_split from sklearn.metrics import mean_squared_error # Load your dataset and split it into training and testing sets X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42) # Create a Gradient Boosting Regressor model gb_regressor = GradientBoostingRegressor(n_estimators=100, learning_rate=0.1, max_depth=3, random_state=42) # Fit the model to the training data gb_regressor.fit(X_train, y_train) # Make predictions on the test set y_pred = gb_regressor.predict(X_test) # Evaluate the model mse = mean_squared_error(y_test, y_pred) print(f"Mean Squared Error: {mse}")
```

XGBoost:

You'll need to install the xgboost library if you haven't already:

bashCopy code

pip install xgboost

Here's an example of using XGBoost for regression:

pythonCopy code

```
import xgboost as xgb from sklearn.metrics import mean_squared_error # Create a DMatrix from your data dtrain = xgb.DMatrix(X_train, label=y_train) dtest = xgb.DMatrix(X_test, label=y_test) # Set hyperparameters params = { 'objective': 'reg:squarederror', 'max_depth': 3, 'learning_rate': 0.1, 'n_estimators': 100, 'seed': 42 } # Train the XGBoost model xgboost_model = xgb.train(params, dtrain) # Make predictions on the test set y_pred = xgboost_model.predict(dtest) # Evaluate the model mse = mean_squared_error(y_test, y_pred) print(f"Mean Squared Error: {mse}")
```

These code examples demonstrate how to use Gradient Boosting and XGBoost for regression tasks. Make sure to adjust hyperparameters like `n_estimators`, `max_depth`, and `learning_rate` to fine-tune the model for your specific dataset and problem. Additionally, you can explore other gradient boosting libraries like LightGBM and CatBoost, which offer similar functionality and often perform well in different scenarios.

Create a chatbot in python

Creating a chatbot in Python involves several steps. Here's a basic outline to get you started:

1. **Choose a Framework or Library**: There are several libraries and frameworks available to build chatbots in Python. Some popular ones include ChatterBot, NLTK, spaCy, and more. Choose one that suits your needs.
2. **Set Up Your Environment**: Ensure you have Python installed, and install any necessary libraries or dependencies for your chosen framework.
3. **Data Collection and Preprocessing**: Depending on your chatbot's purpose, you may need to collect and preprocess data. This could involve creating a dataset of conversation examples.
4. **Training**: If you're using a machine learning approach, you'll need to train your chatbot using your dataset and the chosen framework. This step may vary significantly depending on your chosen framework.
5. **Natural Language Processing (NLP)**: Implement NLP techniques to understand and respond to user input. This includes tokenization, stemming, or lemmatization.
6. **Response Generation**: Create a system for generating responses. This might involve rule-based systems, machine learning models, or a combination of both.
7. **Integration**: Integrate your chatbot into the desired platform or application. This could be a website, a messaging app, or any other communication channel.
8. **User Interaction**: Implement a way for users to interact with your chatbot, whether through a web interface, command-line interface, or API.
9. **Testing and Refinement**: Test your chatbot with real users and collect feedback to refine its responses and improve its performance.
10. **Deployment**: Deploy your chatbot to a server or cloud platform so it can be accessed by users.
11. **Monitoring and Maintenance**: Regularly monitor your chatbot's performance and make updates or improvements as needed.

Build a ChatBot Using Python



Remember that building a chatbot can be a complex task, and the specific implementation details will depend on your project's goals and complexity. It's important to continuously improve and refine your chatbot to provide a better user experience.

Chatbots offer several benefits for businesses:

Chatbots offer several benefits for businesses:

1. **24/7 Customer Support:** Chatbots can provide round-the-clock customer service, addressing inquiries and issues even outside of regular business hours.
2. **Cost-Efficiency:** They reduce the need for human customer support agents, saving on labor costs in the long run.
3. **Instant Responses:** Chatbots provide quick and consistent responses, enhancing customer satisfaction and engagement.
4. **Scalability:** They can handle multiple customer inquiries simultaneously, ensuring scalability as your business grows.
5. **Data Collection:** Chatbots can collect valuable customer data, enabling businesses to understand customer preferences and behaviors.

Chatbot benefits for business



- , 6. **Lead Generation:** Chatbots can qualify leads and direct potential customers to the right resources, improving conversion rates.
- 7. **Personalization:** Advanced chatbots use AI to personalize interactions, making customers feel more valued.
- 8. **Reduced Errors:** They minimize human errors in customer interactions, ensuring accuracy in responses.
- 9. **Task Automation:** Chatbots can handle routine tasks, freeing up human employees to focus on more complex and creative work.
- 10. **Cost-Effective Marketing:** Chatbots can be used for automated marketing campaigns and product recommendations.

11. **Enhanced User Experience:** They provide a seamless and user-friendly experience for customers, improving overall satisfaction.
12. **Analytics and Insights:** Chatbots generate data that can be analyzed to gain insights into customer behavior and improve business strategies.
13. **Multilingual Support:** They can communicate with customers in multiple languages, broadening your customer base.
14. **Integration:** Chatbots can integrate with various platforms and systems, streamlining processes.
15. **Competitive Advantage:** Businesses that adopt chatbots early gain a competitive edge by offering innovative customer service solutions.

Overall, chatbots can significantly enhance efficiency, customer satisfaction, and the bottom line for businesses.

Create a chatbot in python

Abstract:

To create a chatbot in Python, you can use a library called ChatterBot. ChatterBot is a free and open-source Python library that makes it easy to create chatbots. It provides a variety of features, including:

Module:

- * A simple API for creating and training chatbots
- * A library of pre-trained chatbots
- * Support for multiple languages
- * The ability to create custom chatbots using machine learning

To create a chatbot with ChatterBot, you will first need to install it. You can do this with the following command:

```
...
pip install chatterbot
...
```

Once ChatterBot is installed, you can create a new chatbot using the following code:

```
```python
import chatterbot

chatbot = chatterbot.ChatBot('My Chatbot')
...```

```

Next, you can train your chatbot by providing it with a dataset of conversations. You can do this by loading a pre-existing dataset from a file or by creating your own dataset.

To load a pre-existing dataset, you can use the following code:

```
```python
chatbot.train('conversations.txt')
...```

```

This will load the dataset from the file `conversations.txt` into your chatbot.

To create your own dataset, you can use the following code:

```
```python
chatbot.train([
 'Hi!',
 'Hello!',
 'How are you?',
 'I am doing well, thank you for asking.',
 'What can I do for you today?',
])
```

```

This will train your chatbot on the following conversation:

```
...
Hi!
Hello!
How are you?
I am doing well, thank you for asking.
What can I do for you today?
...```

```

Once your chatbot is trained, you can start chatting with it using the following code:

```
```python
response = chatbot.get_response('Hi!')

print(response)
```

```

This will print the following output:

```
...
Hello!
...```

```

You can continue chatting with your chatbot by providing it with new inputs and printing its responses.

Here is a complete example of a simple chatbot in Python:

```
```python
```

```

```
import chatterbot

chatbot = chatterbot.ChatBot('My Chatbot')

chatbot.train([
    'Hi!',
    'Hello!',
    'How are you?',
    'I am doing well, thank you for asking.',
    'What can I do for you today?',
])

while True:
    user_input = input('> ')

    response = chatbot.get_response(user_input)

    print(response)
    ...
```

This chatbot will continue to chat with you until you press `Enter` without typing anything.

You can customize your chatbot in a variety of ways. For example, you can add new conversations to its training dataset, or you can use machine learning to train it to generate more creative and informative responses.