

KGiSL INSTITUTE OF TECHNOLOGY

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**AI CHATBOT**

**Problem Definition:**

In this phase, we can explore innovative techniques such as ensemble methods and deep learning architectures to improve the prediction system's accuracy and robustness .In this phase, consider exploring advanced techniques like using pre-trained language models (e.g., GPT-3) to enhance the quality of responses.

**1. Personal Assistant Chatbot:**

Create a chatbot that acts as a personal assistant, helping users manage their tasks, calendar, reminders, and even provide weather updates. You can integrate with APIs like Google Calendar, OpenWeatherMap, and task management services.

**2. AI Therapist:**

Develop a chatbot that can provide mental health support by engaging in conversations with users, offering advice, and providing resources for coping with stress, anxiety, or depression. Ensure it maintains privacy and directs users to professional help when needed.

**3. Language Learning Chatbot:**

Build a chatbot that helps users learn a new language. It can provide language lessons, vocabulary exercises, and even conduct conversations in the target language to improve speaking and listening skills.

**4. Medical Symptom Checker:**

Create a chatbot that assists users in diagnosing medical symptoms. The bot can ask users about their symptoms, medical history, and provide recommendations or suggest seeing a healthcare professional if needed.

**5. Virtual Shopping Assistant:**

Develop a chatbot that assists users in finding and purchasing products online. It can provide product recommendations, compare prices, and even complete the purchase process within the chat interface.

**6. Code Troubleshooter:**

For developers, design a chatbot that helps troubleshoot coding issues. Users can describe their code problem, and the chatbot can provide solutions, code examples, or direct them to relevant resources.

**7. Fitness Coach Chatbot:**

Build a fitness chatbot that offers personalized workout plans, tracks progress, and provides nutrition advice. It can also send daily reminders to keep users motivated.

**8. Travel Planner Chatbot:**

Create a chatbot that helps users plan their trips, including finding flights, booking hotels, suggesting tourist attractions, and providing travel tips and recommendations.

**9. Virtual Museum Tour Guide:**

Design a chatbot that offers virtual tours of museums and historical sites. Users can ask questions about the exhibits, history, and receive detailed information about the artworks.

**10. Smart Home Control:**

Build a chatbot that allows users to control their smart home devices through natural language commands. Users can turn on lights, adjust thermostats, and control other IoT devices.

**11. Legal Advice Chatbot:**

Develop a chatbot that provides basic legal information and advice on common legal issues. It can guide users through legal processes and suggest when it's necessary to consult with an attorney.

**12. Movie and TV Show Recommender:**

Create a chatbot that recommends movies and TV shows based on users' preferences, previous viewing history, and current mood.

Remember to use Natural Language Processing (NLP) libraries like NLTK, spaCy, or the Hugging Face Transformers library to enhance the conversational capabilities of your chatbot in Python. Additionally, consider using popular chatbot frameworks like Rasa or Dialogflow to simplify chatbot development.

**TEAM MEMBERS:**

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