INNOVATION OF CHATBOT DEPLOYMENT WITH IBM CLOUD WASTON ASSISTANT.

● IBM Watson Assistant is a tool utilizing conversational AI. It is built on deep learning, natural language processing, and machine learning. It provides a chat bot service for businesses looking to reduce time spent on customer service tasks.

●Thanks to advances in technology and machine learning, chat bots have become more advanced and can do so much more than just automating mundane tasks. As time goes on, chat bots will continue to evolve and eventually perform a central role in all different types of companies.

●The focus on chat bot development is part of a broader push for innovation in artificial intelligence.

●The easiest way to deploy a bot is to follow the prompts right after creating a bot. First, go to CHATBOTS page and load your bot. Then click on “Save and Deploy” button as shown below. Then, follow the prompts to choose the medium you want as described below.

**Add your bot to Teams using Developer Portal**

1. Install Developer Portal in Teams.
2. Create the app manifest (previously called Teams app manifest) in Developer Portal.
3. Set up your bot.
4. Add valid domains for your bot.
5. Test and distribute your bot.
6. Start a chat.

●Innovations in chat bot deployment with IBM Watson Assistant typically revolve around enhancing the user experience, improving integration, and leveraging AI capabilities. Some possible innovations include:

Multimodal Interfaces :Integrating chat bots with voice and visual interfaces for a more immersive experience.

AI-Powered Suggestions: Using AI to suggest responses or actions to human agents during a conversation, improving efficiency.

Personalization: Leveraging AI to understand user preferences and tailor responses and recommendations accordingly.

Integration with IOT: Deploying chat bots in IOT environments to facilitate communication with connected devices.

Enhanced NLP: Improving Natural Language Processing (NLP) to understand context, sentiment, and nuances better.

Security: Enhancing chat bot security through AI-driven threat detection and response.

Scalability and Flexibility: Innovations in scaling chat bots as needed, including auto-scaling and hybrid deployments.

Proactive Engagement: Using AI to initiate conversations with users based on their behaviour or previous interactions.

Advanced Analytics: Employing AI-driven analytics to gain insights from chat bot interactions and improve customer service.

AI for Emotional Intelligence: Implement sentiment analysis and emotion recognition to enable chat bots to respond empathetically to users' emotional states.

Continuous Learning: Enabling chat bots to learn from ongoing interactions and adapt to changing user needs.

Generative Chat bots: Utilize generative models like GPT-3 (if integrated with Watson Assistant) to create more dynamic and human-like conversations .

Conversational AI in VR/AR: Deploy chat bots in virtual and augmented reality environments for immersive interactions.

Cognitive Search: Integrate advanced search capabilities using cognitive search engines to retrieve information from vast datasets in a conversational context.

Language Expansion: Support multiple languages and dialects for global reach and language-agnostic communication.

Cognitive Process Automation: Combine Watson Assistant with Robotic Process Automation (RPA) for end-to-end automation of complex tasks with in conversations.

Quantum Computing Integration: Explore integration with quantum computing to handle complex problem-solving and optimization tasks.

Neuro-Linguistic Programming: Integrate NLP techniques that understand and respond to user text in the context of their personality and communication style.

Behavioural Analytics: Utilize user behavioural data for predictive analytics and proactive chat bot interactions.

Voice Cloning: Deploy custom voice models for chat bots to provide a consistent auditory experience.

Strategies:

1. Audience. The first key to a successful strategy is to profile your ideal customers.
2. Goal. To define the purpose or goal for your chat bot strategy, begin with the end in mind.
3. Performance.
4. Key Intents.
5. Storytelling.
6. Platform Strengths:
7. Feedback.