PROJECT

FLOWER SHOP CHATBOT

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OUTLINE

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- Proposed System/Solution
- System Development Approach
- Algorithm & Deployment
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PROBLEM STATEMENT

Example: A flower shop is looking to enhance its customer service and operational efficiency through the development of a chatbot. The flower shop aims to provide an interactive, user-friendly experience for its customers to know about location of different branch of flower shop .and time table as well. The chatbot will be integrated into the shop's website and possibly other platforms like social media or messaging apps.

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PROPOSED SOLUTION

- **Data Collection:**
  - **Gather data from social media platform like Kaggle.**
- **Data Preprocessing:**
  - Data processing for a chatbot in IBM Watson involves defining objectives, collecting and preparing data, designing intents and entities, creating dialogues, training the chatbot, integrating with systems, and ongoing monitoring.
- **Machine Learning Algorithm:**
  - Natural Language Understanding (NLU).
  - Dialog Management
  - Natural Language Generation (NLG)
  - Watson Assistant
- **Evaluation:**
- Define Objectives and Requirements
- Data Collection and Preparation
- Design Intents and Entities
- Deploy the Chatbot

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SYSTEM APPROACH

- System requirements :- intel i3 3rd generation and above
- Library required to build the model :- IBM Watson liberary , Machine lelearning liblibrary, Data handling library, Web Framework and integration Library

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ALGORITHM & DEPLOYMENT

- In the Algorithm section, describe the machine learning algorithm chosen for predicting bike counts. Here's an example structure for this section:
- **Algorithm Selection:**
  - Provide a brief overview of the chosen algorithm (e.g., time-series forecasting model, like ARIMA or LSTM) and justify its selection based on the problem statement and data characteristics.
- **Data Input:**
  - Specify the input features used by the algorithm, such as historical bike rental data, weather conditions, day of the week, and any other relevant factors.
- **Training Process:**
  - Explain how the algorithm is trained using historical data. Highlight any specific considerations or techniques employed, such as cross-validation or hyperparameter tuning.
- **Prediction Process:**
  - Detail how the trained algorithm makes predictions for future bike counts. Discuss any real-time data inputs considered during the prediction phase.

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RESULT

- The final result of the flower shop chatbot using IBM Watson will be a sophisticated tool that improves customer engagement, streamlines order processing, and enhances overall efficiency. It will offer:

1. Comprehensive Product and Service Information
2. Seamless Order Placement and Delivery Scheduling
3. Effective Customer Support and Feedback Collection
4. Smooth Integration with Website and Backend Systems
5. Enhanced User Experience with Personalization and Multilingual Support

- By leveraging IBM Watson's advanced NLP and machine learning capabilities, the chatbot will provide a valuable and efficient customer service tool for the flower shop, ultimately contributing to better customer satisfaction and increased sales.

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ALL PROJECT RELATED LINK

Project Link :- https://github.com/piyushkushwahaa/Flower-Shop-Chatbot.git

Chatbot Link :-

https://web-chat.global.assistant.watson.appdomain.cloud/preview.html?backgroundImageURL=https%3A%2F%2Fau-syd.assistant.watson.cloud.ibm.com%2Fpublic%2Fimages%2Fupx-8feab70b-4ee3-4a25-af51-612b474c15bf%3A%3A36f3afd9-336d-4c1d-b284-06c70a44a00c&integrationID=4bb7e50e-938f-4bd5-9c4b-8fc53db5d3ad&region=au-syd&serviceInstanceID=8feab70b-4ee3-4a25-af51-612b474c15bf

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CONCLUSION

- The flower shop chatbot powered by IBM Watson embodies a blend of sophisticated technology and practical functionality. It not only enhances the customer experience by offering quick, accurate, and personalized interactions but also supports the shop's operational efficiency through automation and integration.
- In summary, the chatbot serves as a powerful tool for modernizing customer service in the flower shop industry, ultimately driving better engagement, satisfaction, and business growth.

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FUTURE SCOPE

- The future scope of a flower shop chatbot is rich with possibilities. By leveraging advanced technologies and continuously improving AI capabilities, the chatbot can offer more personalized, engaging, and efficient customer interactions. Expanding functionalities, integrating with emerging technologies, and enhancing security and privacy will ensure the chatbot remains a valuable tool for both customers and the business.

REFERENCES

- Kaggle
- YouTube
- IBM Cloud
- Watson Assistant

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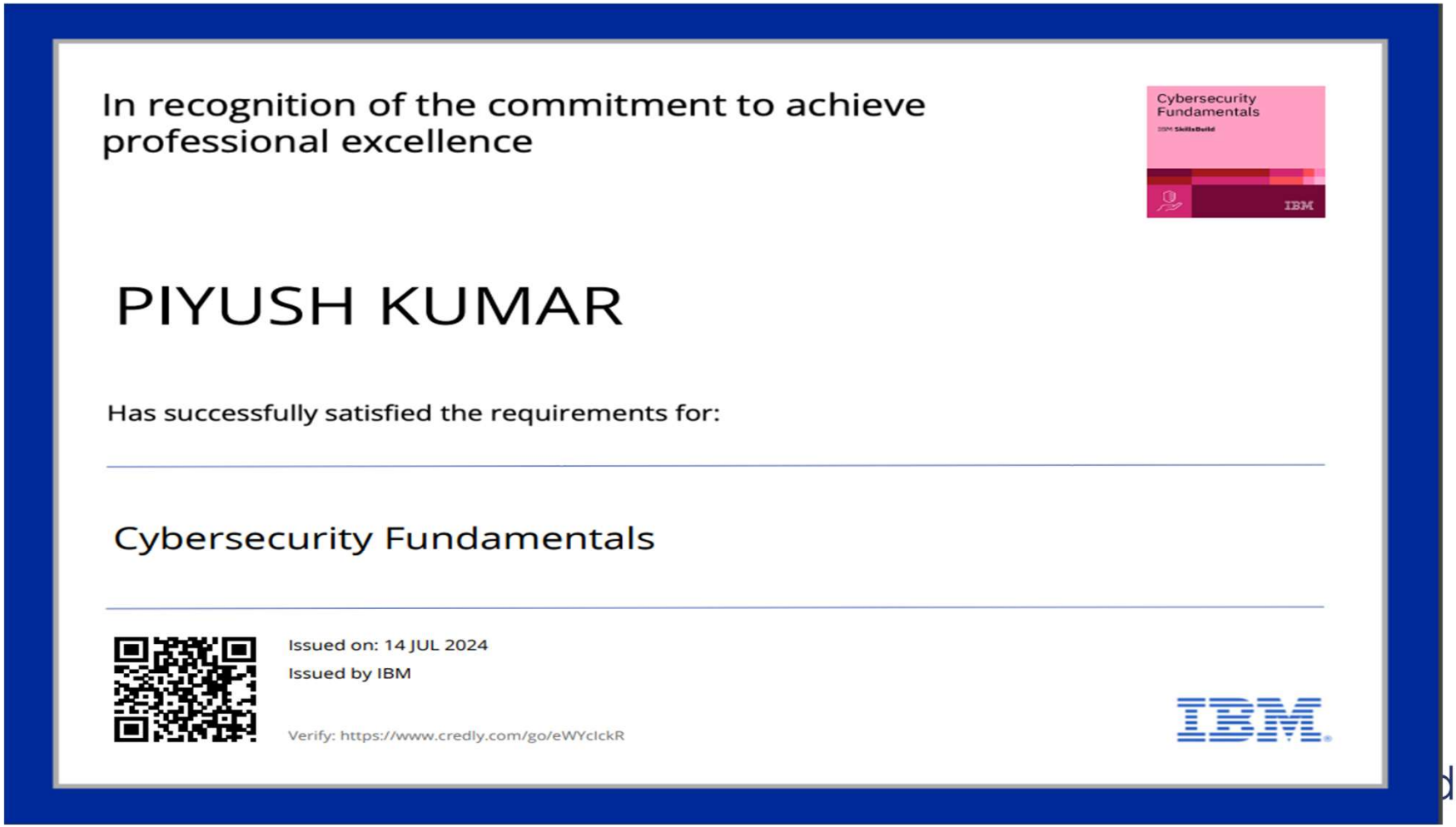
COURSE CERTIFICATE 2



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