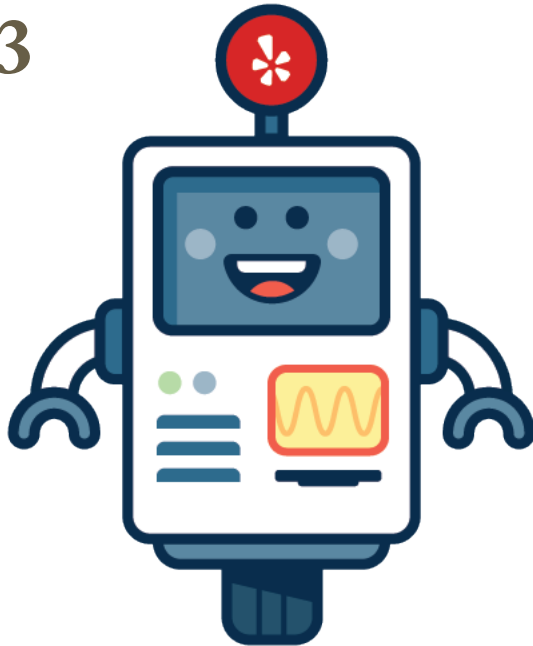


# *CHATBOT*

## Restaurant Recommendation System

Team 13



*Arun Soundararaj*

*Bharath Sivaraman*

*Louis Arokiaraj Gilbert*

*Vrushali Sudhir Peshave*

# What ?

- A dialogue system - Chatbot.
- Recommends restaurants based on user preferences
  - Cuisine
  - Location
  - Price
- Analysis of user reviews.

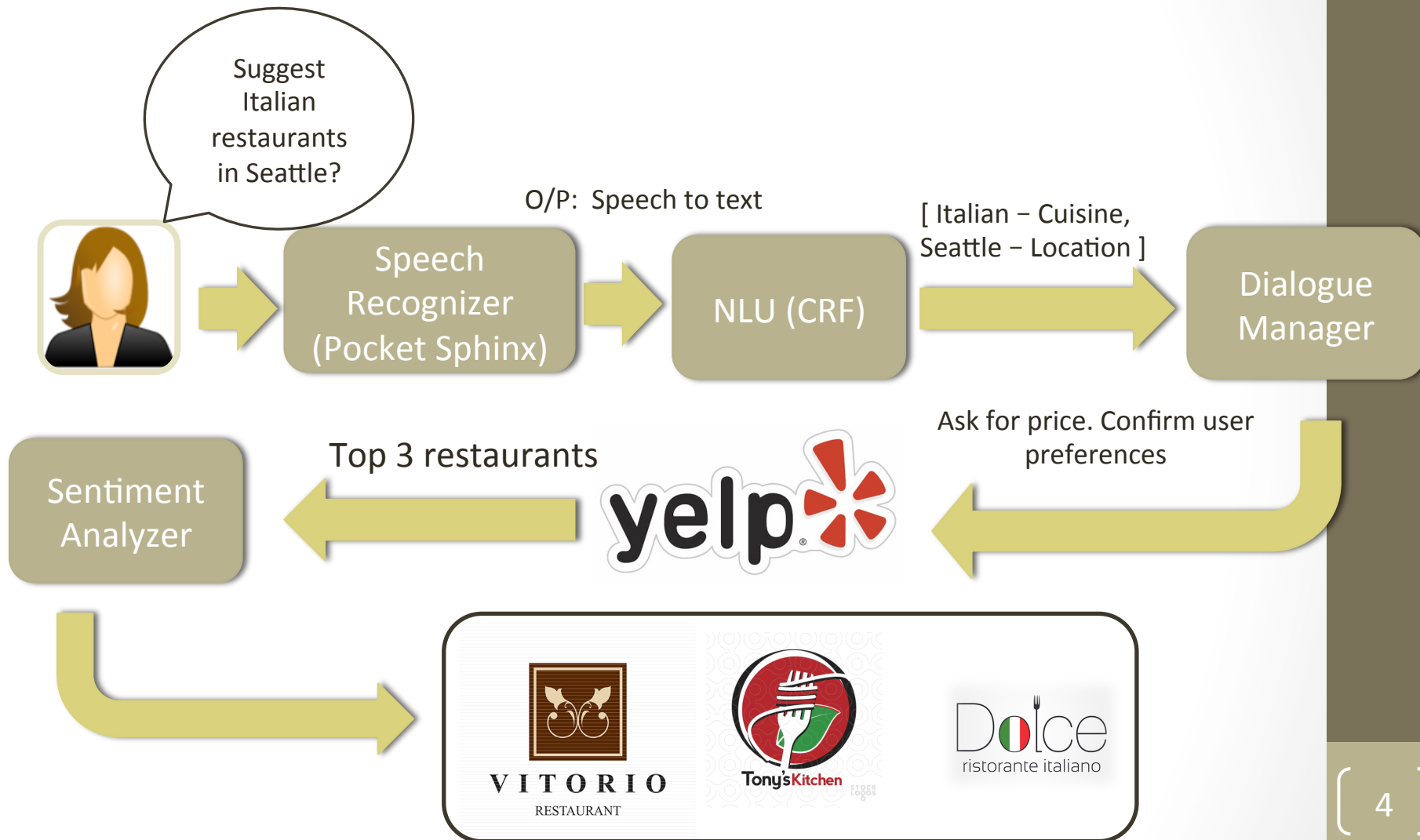
# Why ?

- Cognitive assistants are the evolving technology
- Handling of multiple NLP sub tasks
- Involves Human-computer interaction



amazon alexa

# How ?



# Evaluation

- Speech Recognition – Word Error Rate
- Natural Language Understanding – Precision and Recall
- Sentimental Analysis of reviews – Precision and Recall
- Overall System's Evaluation – Survey

# Future Enhancements

- Text to speech
- Learning from previous chat sessions
- More user preferences
- More refined user interactions
- Performance Optimization

# A Quick Demo !

- Demo Link:

<https://www.youtube.com/watch?v=DWipYowZmaU>

# References

- <http://ieeexplore.ieee.org/abstract/document/7041732/>
- <http://cmusphinx.sourceforge.net/wiki/>
- <http://www.chokkan.org/software/crfsuite/manual.html>
- <https://www.yelp.com/developers/documentation/v3>
- <https://github.com/nltk/nltk/wiki>
- <http://cs229.stanford.edu/proj2014/Yun%20Xu,%20Xinhui%20Wu,%20Qinxia%20Wang,%20Sentiment%20Analysis%20of%20Yelp's%20Ratings%20Based%20on%20Text%20Reviews.pdf>