

Video Lecture Report

For each assigned video, you should fill out the following report and submit a hard copy of this at the start of class on the requested date. Failure to submit on time will result in a 0 score.

It's very important that this be in your own words, and that you write in complete and clear sentences. I will reduce your grade if I find the text to be ungrammatical or difficult to understand. Please do not cut and paste, copy, or paraphrase any text from any source in preparing this. If you submit any text that you did not write completely yourself, your score will be a 0.

Your Name : Heman Baral

Name of Speaker/s: Yorick Wilks

[1 point] Brief Bio of Speaker/s (including current title, affiliation, web site plus a brief description of their background and interests) :

Speaker name is Yorick Wilks, he is the professor at University of Sheffield. Besides that, he is also a visiting professor at Gresham College, senior researcher at Oxford and senior scientist at Florida Institute. He did his doctorate degree from Cambridge on philosophy where he worked there under professor R.B. Braithwaite. He has been honored with many awards during his career but few of the most notable are Loebner Prize, The British Computer Society's Lovelace Medal and Lifetime Achievement Award at ACL.

[1 points] In 25 words or less (seriously) what was the most important point (in your opinion) of this presentation?

Over a certain period of time can machine learn from the conversation with the user over time and use that information to develop its speech.

[2 points] List five (5) facts that you learned from this presentation. These should be actual verifiable facts (rather than opinions). Please express them as complete sentences.

1. Extension of speech, it not about understanding what you say but it is more about taking the speech wave and translating to a written language.

2. PERRY was the much robust than ELIZA. It imitated as a paranoid schizophrenic.

3. One of the brilliant idea by Tim Berners-Lee was the Semantic Web it is a mesh of data that are associated in such a way that they can easily be processed by machines instead of human operators.

4. AI includes pattern recognition, fuzzy logic, natural language processing and robotic.

5. The artificial intelligence in chatbots is used to improve decision making, customer service. The chatbots are ethically and socially blind.

[5 points] Write a 300-500 word summary of the presentation. Please use complete sentences and take us from the start of the talk through the end. What were the main themes in the talk, how were they integrated together, and how do they apply to what you have previously learned (in this class or another class)?

In this video professor Yorick Wilks is giving a lecture on Oxford Internet Institute. He starts off talking about “Machine Dialogue” which is the way we talk to computer and how we can get them to talk in an interesting manner. This is not as easy as it sounds since human dialogue is very complex to understand since we don’t speak in full sentence which is really hard for a computer to understand what we are talking about. He talked about brief history on ELIZA and PERRY and how two are different from each other. Eliza was designed to help people using simple script and mimic as a psychologist. The big idea about this lecture was companion agent. It is a emotional device which provide companion to a person, rather than the task based. He goes over how we can get companion agent to act like a human and how it can know how a person is feeling. In order to do so it has to have an exact attribute of human and knowing everything about human emotions. Human being has so many different emotions and sometimes we tend to hide our emotions around other people. Sometimes we get sarcastic or use a slag on our sentence. According to professor Wilks, it will take a lot of hard work to have a fully functional companion machine but there are few beta versions that is being used by CIA but a device that acts like a real friend to a person is still miles to go. There are so many factors comes in to play for instance, if you are talking about your friend name “Sarah” then how can a machine gives you an answer when it doesn’t know who that person is and how you feel about her. Machine is only going to learn what you tell them and what information you give them access too. If a machine happens to know everything about you and have an ability to learn then it might lead you to do something bad or give you a wrong information knowingly. This against create a debate on whether a senior companion is good or bad for a person.

[1 points] Provide 3 URLs that provide more information about the topics raised in this talk. These should not be URLs that were mentioned in the talk, but rather sites you find via your own searching and investigating. In addition to the URL, provide a brief description of what is available at that site. Please make the URLs as links so that I can easily visit the sites.

URL : <https://www.policeone.com/police-products/police-technology/police-software/articles/482718006-The-hidden-intelligence-behind-speech-recognition-technology/>

Description : By using deep learning, speech recognition can be used have a better understanding with police lingo, even adapts their accents which will help them to create incident reports with accuracy, speed and safety. Nuance Dragon Law is one of those software which is created to help the law enforcement.

URL : <https://indianexpress.com/article/technology/tech-news-technology/govts-planned-voice-based-ai-bot-may-be-available-in-feature-phones-too-5561958/>

Description : This article talks about how government are pushing forward to use AI to get most of their work done. Just like Siri and Alexa to provide a facility to access government services such as utility bill payments, provident fund balance and income tax filings for the general people. Also, in India different region people speaks different language and most of them are illiterate so, it talks about how AI can be incorporated to understand them and help with filing taxes or paying bills

URL: <https://www.forbes.com/sites/cognitiveworld/2019/01/20/can-artificial-intelligence-be-biased/#7784e65d7e7c>

Description: This article talks about how AI can be bias and how we can create some rules so it treats everyone equally and not be sexist or racist.