

Unit 5 Reinforcement Learning (2 Lecture 19: Applications: Natural

Course > weeks)

> <u>Language Processing</u>

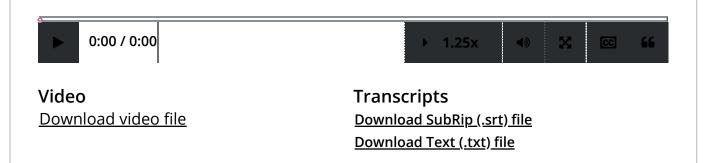
5. NLP - Symbolic vs Statistical Approaches

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5. NLP - Symbolic vs Statistical Approaches

NLP - Symbolic vs Statistical Approaches



Symbolic Approach

1 point possible (graded)

Let us say that Alice and Bob are interested in building an NLP based system that can have a conversation with a medical patient in order to offer an accurate medical diagnosis for his/her symptoms.

It works by the NLP agent first asking the patient a series of questions about his/her medical condition and then suggesting a possible diagnosis that best fits his/her symptoms.

Alice decides that the best way to solve this problem would be by first automatically infering medically relevant properties from a large training corpus of medical symptoms and their corresponding diagnoses.

Bob decides that it is best to take a different approach and encodes all the required information for this task into an elaborate knowledge representation which he then

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