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## Overview of NLP

### **Define NLP in your own words**

- Natural language processing helps the computer analyze words and sentences that were made from humans. After analyzing the words and sentences, the computer can complete request made from humans.

### **Describe the relationship between AI and NLP**

- NLP helps the AI understand the words and sentences the humans typed or spoke. Thus, this helps AI complete request made from humans. For example, if a person asks the AI for information on baseball, the AI should show the person information related to baseball.

### **Write a sentence or two comparing and contrasting natural language understanding and natural language generation**

- Natural language understanding is when someone or something recognizes what the person is trying to convey through written or verbal communication. On the other hand, natural language generation helps creates words and sentences that mimic natural language from humans.

### **List some examples of modern NLP applications**

- Translation program
- Predictive text in email
- Predictive text in Microsoft Word

**Write 3 paragraphs describing each of the 3 main approaches to NLP, and list examples of each approach**

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**Write a paragraph describing your personal interest in NLP and whether/how you would like to learn more about NLP for personal projects and/or professional application**

- I am interested in NLP because NLP helps computer programs understand and complete request made from the people. However, it is not perfect. There are times where computer programs misunderstood what the person wanted. Thus, I would like to learn more about NLP so that I can help improve it. Then, I can use what I learned and improved on NLP for my professional application.