define NLP in your own words

NLP is how computers "understand" and generate human language

describe the relationship between AI and NLP

NLP is under the large umbrella of AI, it is a sub-category

write a sentence or two comparing and contrasting natural language understanding and natural language generation

Natural language understanding is how a program processes human language, to analyze its text. While natural language generation is creating human language usually for use in a user-interface. Natural language understanding and generation go together as they can pass from on to another. W

list some examples of modern NLP applications

- Spam detection
- Language translation/generation
- "OK Google"
- Siri

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

The first approach to NLP is a **Rules-Based Approach**. This was the original approach to NLP, and programs we consider common such as spell checkers were seen as a big deal. The main issue with this approach was that rules didn't scale well with the complexity of human language.

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