

In this module, I analyzed the film *Arrival*(2016) for similar themes and hurdles as those found in Natural Language Processing (NLP). The film revolves around the challenges of communication and understanding between humans and extraterrestrial beings, which reflects the difficulties faced in NLP when dealing with the complexities of human language. The main character, Louise Banks, attempts to decipher the aliens' unique language system, which consists of circular symbols with intricate patterns. This process of decoding and interpreting an unknown language is analogous to the tasks of machine translation, sentiment analysis, and named entity recognition in NLP, where the goal is to extract meaning and context from human language data. Throughout the film, Louise encounters various obstacles, such as the ambiguity of the symbols, the lack of a shared vocabulary, and the pressure of time constraints, which are reminiscent of the challenges in NLP, including dealing with ambiguous words or phrases, understanding context-dependent meanings, and processing large amounts of data efficiently.