An everyday example of innovative NLP technology is virtual voice assistants, such as Apple's Siri. These voice-activated assistants use NLP to understand and respond to spoken commands or questions. They work via the following steps:

1. Wake Word Detection: The virtual assistant is always listening for a specific wake word. Once it detects the wake word, it activates and begins listening for further instructions.

2. Speech Recognition: The assistant converts the spoken words into text through speech recognition algorithms. It breaks down the audio input into individual words and phrases.

3. Natural Language Understanding: The converted text is analysed using NLP techniques to understand the user's intent and extract relevant information. This involves tasks such as part-of-speech tagging, entity recognition, and semantic parsing.

4. Intent Recognition: The assistant determines the user's intention based on the analysed text.

5. Action and Response: Once the intent is identified, the assistant performs the appropriate action or provides a response. It may retrieve information from a database, execute a command, or generate a spoken or textual response to answer the user's query.

6. Continuous Learning: Virtual voice assistants continuously learn and improve over time. They gather data from user interactions, user feedback, and updates from the developers to enhance their accuracy and understand user preferences better.

Virtual voice assistants using NLP technology have become an integral part of many people's daily lives, allowing them to perform various tasks hands-free, such as setting reminders, playing music, providing weather updates, answering general knowledge questions and controlling smart home devices.