**Natural language processing (NLP) with Node**

**Introduction:**

* It is a way for computers to analyze, understand and derive meaning from human language.
* A field of artificial intelligence.

There are two types of NLPs

1. **Natural Language Generation:**

Translating computer’s artificial language into text.

We can translate that text into audible speech with text to speech.

1. **Natural Language Understanding:**

The computer has to convert the natural language into computer language, Then it does speech recognition and speech to text.

Significant implementations of NLP aren’t too far from us these days as most of our devices integrate AI (artificial intelligence), ML (machine learning) and NLP to enhance human-to-machine communications. Here are some common examples of NLP in action:

1. **Search engines**: One of the most helpful technologies is the Google Search engine. You put in text and receive millions of related results as a response. This is possible because of the NLP technology that can make sense of the input and perform a series of logical operations. This is also what allows Google Search to understand your intent and suggest the proper spelling to you when you spell a search term incorrectly.
2. **Intelligent virtual assistants**: Virtual assistants such as Siri, Alexa, and Google Assistant show an advanced level of the implementation of NLP. After receiving verbal input from you, they can identify the intent, perform an operation and send back a response in a natural language.
3. **Smart chatbots**: Chatbots can analyze large amounts of textual data and give different responses based on large data and their ability to detect intent. This gives the overall feel of a natural conversation and not one with a machine.
4. **Spam filter**: Have you noticed that email clients are constantly getting better at filtering spam emails out of your inbox? This is possible because the filter engines can understand the content of emails — mostly using Bayesian spam filtering— and decide if it’s spam or not.