

Batch I & 2 Don't Forget to attend Today's Technical hackathon on M.L 6:00 PM

Batch 3 & Combo Ends in 4 Days

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Day-26 Agenda.

01.

Evolution of Human Language

Human Language evolution

02.

NLP - NLU & NLG

Overview on NLP, NLU & NLG.

03.

NLP TERMINOLOGY

Process in NLP

04.

Q&A

Evolution of human language

- Language first appeared among Homo sapiens somewhere between 30,000 and 100,000 years ago, the secret to how language evolved is still unknown
- The idea here is that language was created to help humans survive.



Natural Language Processing



01.

NLP is a part of Computer science and Artificial Intelligence which deals Human language

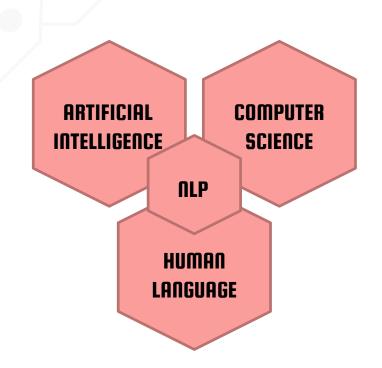
02.

Understanding and replying the human language

TEXT MINING

TEXT MINING

Deriving meaningful information from natural language Text



ULU & ULG



NATURAL LANGUAGE UNDERSTANDING

(NLU) is a branch of artificial intelligence (AI) that uses computer software to understand input made in the form of sentences in text or speech format.

NATURAL LANGUAGE GENERATION



Natural-language generation is a software process that transforms structured data into natural language. It can be used to produce long form content for organizations to automate custom reports, as well as produce custom content for a web or mobile

NLP Terminology

Tokenization.

Breaking strings into small individual Tokens or words

EXAMPLE

What's the time now? to What's The Time now

Stemming.

Normalize words into its base form or its root form

EXAMPLE

Playing , played, plays to play

Lemmatization.

Grouping different inflected form of word called Lemma

Similar to Stemming, but returns perfect word

EXAMPLE

Better, super to Good

POS — parts of speech.

The most popular POS tagging would be identifying words as nouns, verbs, adjectives, etc.

EXAMPLE

Google about pantech solutions

Google may be Noun/Verb

Named entity recognition.

Recognizing the words as movie, monetary values, organization, location, quantity or person.

EXAMPLE

Google about pantech solutions

Google — verb Pantech solutions – organization

Chunking.

Picking pieces of words and form into phrases

EXAMPLE

Google About Pantech Solutions

to

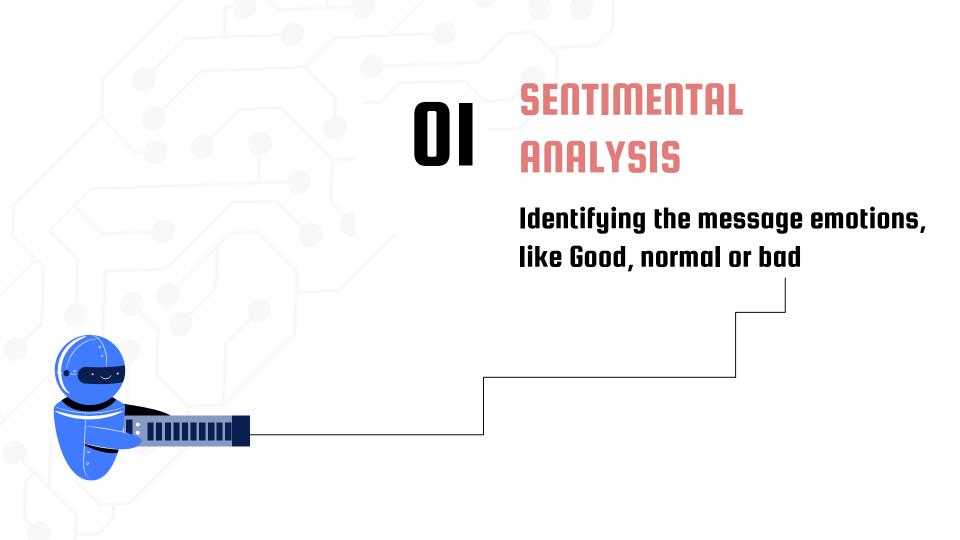
Google about pantech solutions

NLTK — NATURAL LANGUAGE TOOLKIT



The Natural Language Toolkit, or more commonly NLTK, is a suite of libraries and programs for symbolic and statistical natural language processing for English written in the Python programming language.

Applications of **NLP**





Automatic messaging, like Hike Natasha





Voice assistant device such as Google Home, Amazon Alexa, etc.





Google Translate, Translating device.





Automatic spell check & Correction like Grammarly





Google keyword search and Search Engine Optimization





Search Engine suggestion and Translation





Showing ad's based on the search interest of users



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Thanks!

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Tomorrow session

Title Formation from Paragraph