



One of The Greatest Problems Faced Content Processing Is!!!

Homographs !!!

Homographs in Retrieval

Google

quarter













https://dictionary.cambridge.org > dictionary > quarter

QUARTER | meaning in the Cambridge English Dictionary

7 days ago — quarter pour [C] (FOURTH PART); one of four equal · almost; A quarter of/to the hour means A quarter past/after the hour means A quarter is one ...

https://en.wikipedia.org > wiki > Quarter (United State...

Quarter (United States coin) - Wikipedia

The quarter, short for quarter dollar, is United States coin worth 25 cents, one-quarter of a dollar. The companion on the profile of George Washington on ...

Composition: From 1965: 91.67% Cu, 8.33% ... Years of minting: 1796, 1804–1807, 1815-...

Value: 0.25 U.S. Dollar Diameter: 24.26 mm (0.955 in)

Washington guarter · America the Beautiful guarters · 50 State guarters

https://www.merriam-webster.com > dictionary > quarter

Quarter Definition & Meaning - Merriam-Webster

English Language Learners Definition of quarter · one of four equal parts of something · a unit of something (such as weight or length) that equals one fourth of ...

Google





https://www.almaany.com > dict > ar-ar · Translate this page

تعريف و معنى جين في قاموس الكل. قاموس عربي عربي. جُنِنُ (المعجم القاموس المحيط). ـ جُنِنُ، وجُبُنُ وجُبُنِّ: معروف. ـ قد ...

https://dorar.net > akhlag > ... خفي-الج... Translate this page

معنى الجبن لغةً و اصطلاحًا - موسوعة الأخلاق - الدرر السنية

الجين ضِدُّ الشَّجاعَة، تقول: هَيَنَ يَهْيُن وحَبُنَ جُبْنًا وجُبُنًا وجَبانَةً، وأَجْبَنَه وجده جَبانًا أو حَسِبه إياه، وحجبان من الرِّجالِ هو ضعيف

https://mawdoo3.com › فوائد الجبن... • Translate this page

فوائد الجين وأضراره - موضوع

الجين السائل هو جين كريمي ناعم ذو قوام طري، ويمثلك نكهة معتدلة، ويُستخدم بشكل شائع مع الخيز، والسكوري، والكعك، وعادةً ما يِّمُ تصنيعه من قشدة الحليب، ويمكى ...

٥ أسئلة شائعة حول الجبن ٤٠ أضرار الجبن ٢٠ أنواع الجبن وفوانده ١٠ الفواند العامة للجبن

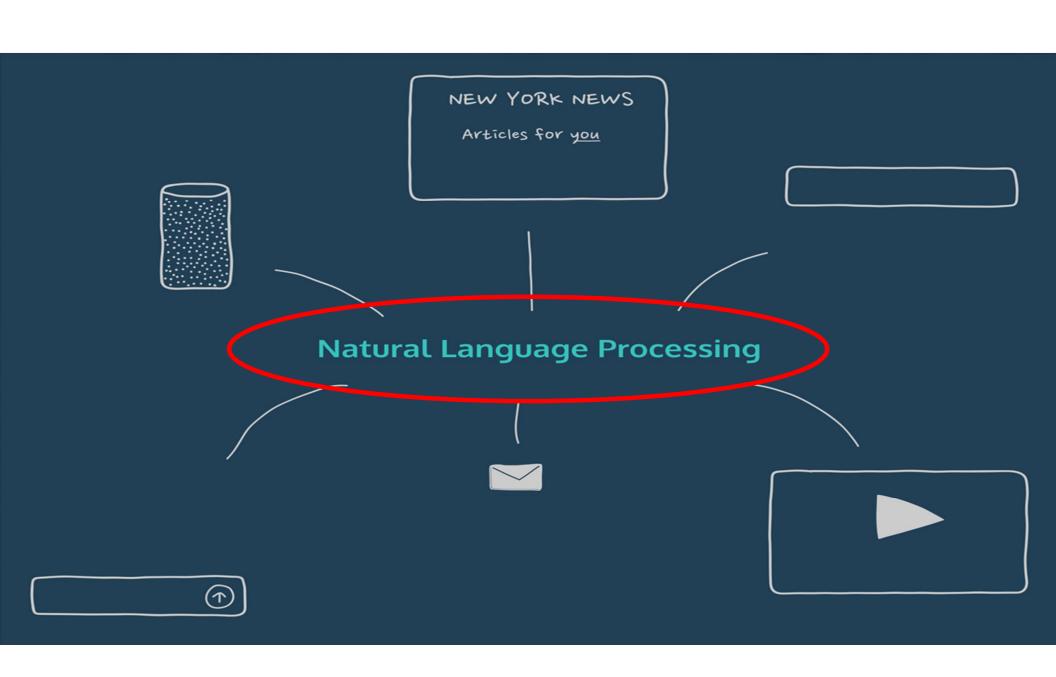
The Question is:

How Can a Machine Understand the Meaning of Words?

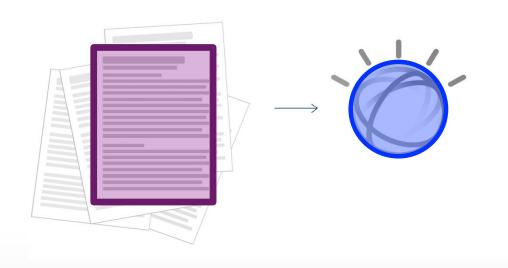
A

The Answer is:

NLP Techniques



NLP for Documents Processing

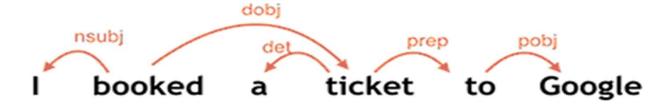


By Extracting:

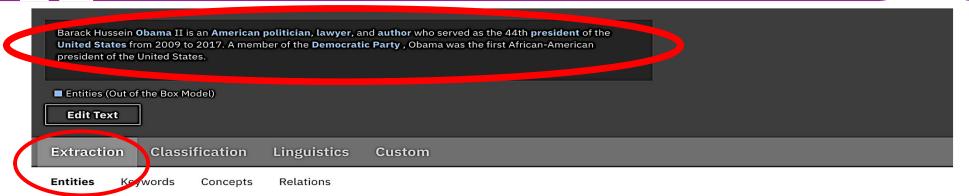
- Entites.
- Keywords.
- **Concepts.**
- Other LS.

NLP for Resouces Indexing

Dependency Parsing



Let's Try!



Name	Туре	Confidence
Obama	Person	0.99
lawyer	JobTitle	0.91
author	JobTitle	0.70
president	JobTitle	0.97
United States	Location	0.81
Democratic Party	Organization	0.79

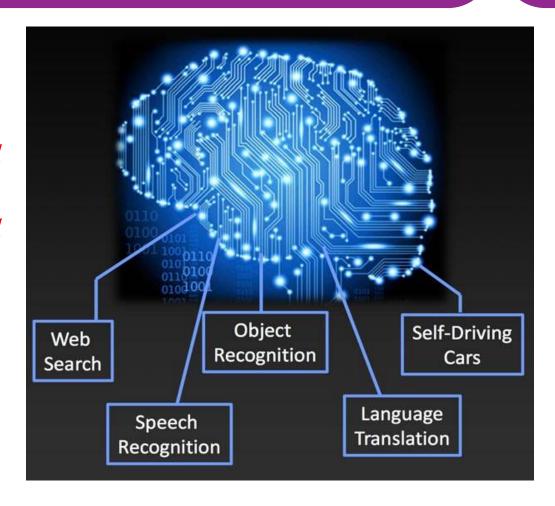
Now

How Can to Machine Do That's?

The Answer is:
by

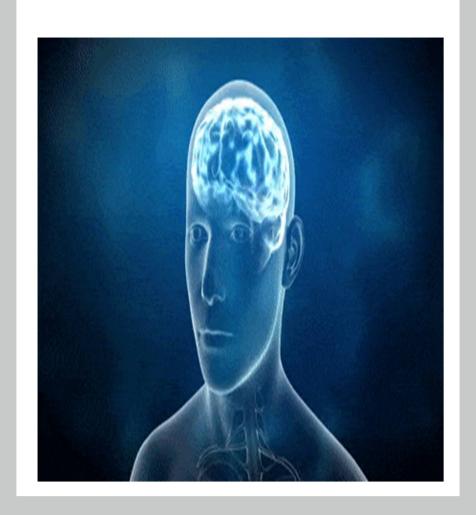
Artificial Neural Networks

To Understand How Artificial Neural Networks Works You Should First Realize the Biological Neural Networks!

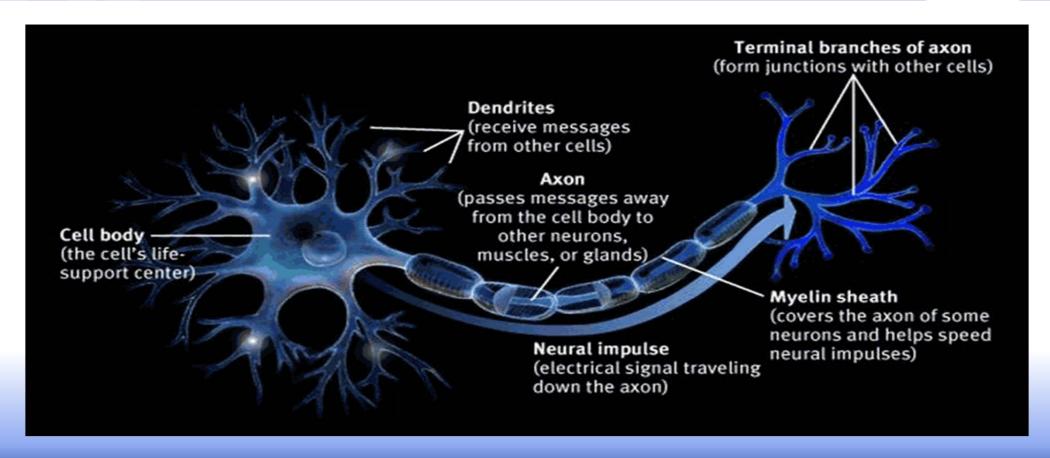


Δ BNN

- The Brain is a Highly Complex, Non-linear, Parallel Information Processing System.
- It Performs Tasks Like Pattern Recognition, Perception, Motor Control, Many Times Faster than the Fastest Digital Computers.



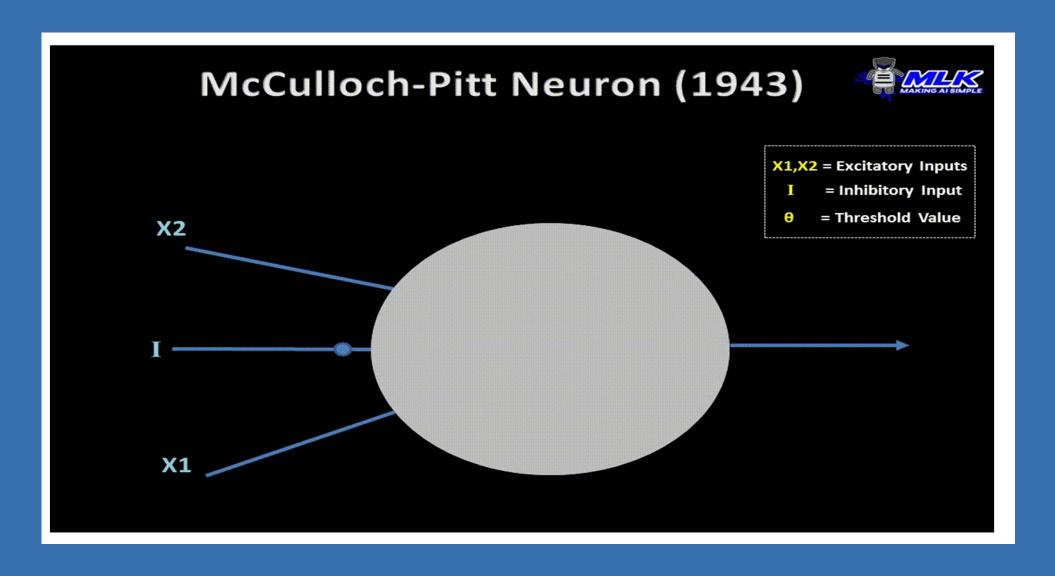
BNN



A E BNN

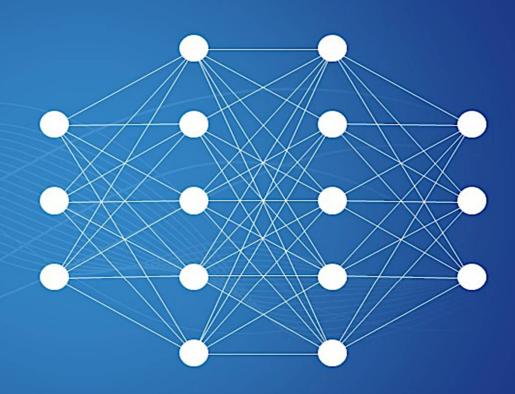
Neuron	A cell of the brain and nervous system, responsible for sending signals to other cells.
Dendrite:	A neuron extension, which receives stimuli and transmits signals to the other neurons.
Axon	A long, thin structure responsible for the generation and processing of the signal in the neuron.
Synapse	Communication point, in which sending neurons transmit the message to receiving neurons.
Weight	A special tool, which enables modification of the signal.

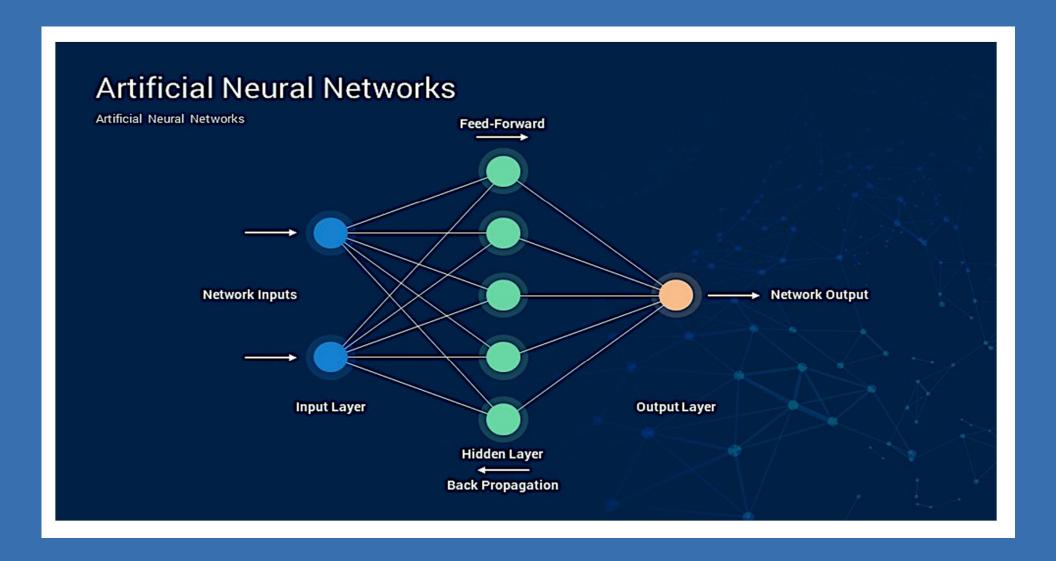




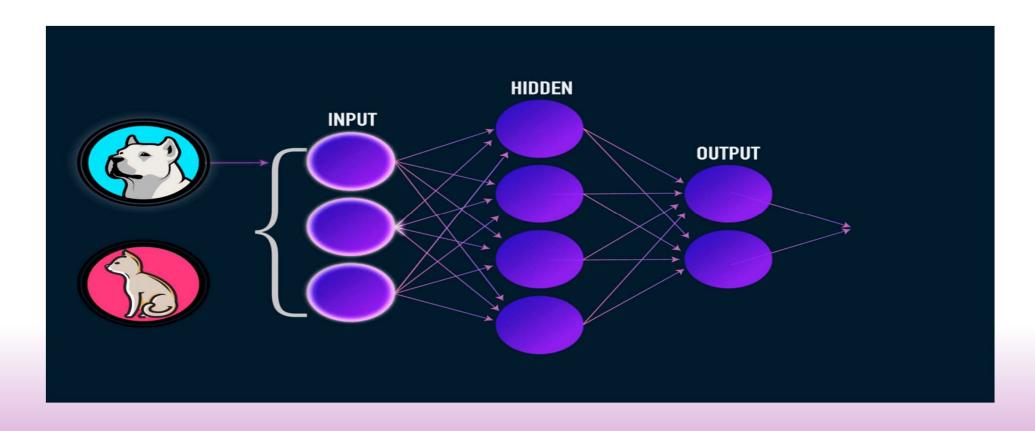
What is Artificial Neural Networks?

A neural network is a group of connected I/O units where each connection has a weight associated with its computer programs. It helps you to build predictive models from large databases. This model builds upon the human nervous system. It helps you to conduct image understanding, human learning, computer speech, etc.

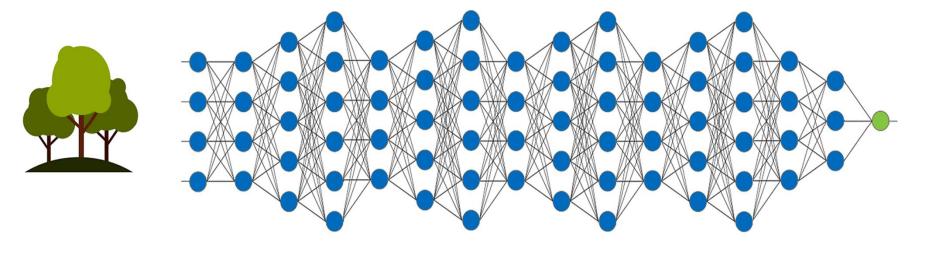




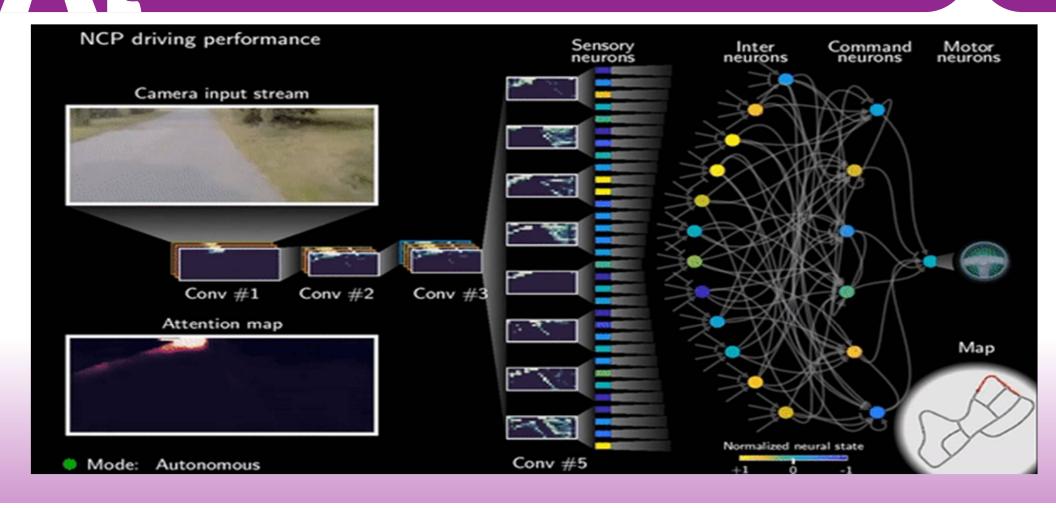
Simple Hidden Layer



Multiple Hidden Layers



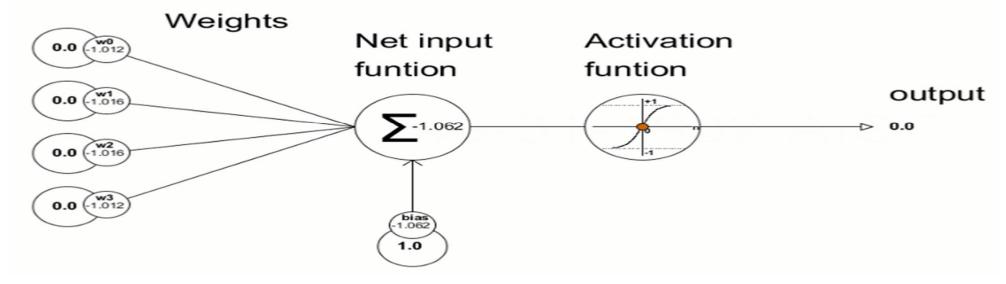
Complicated Hidden Layers



What's Going on Inside It?

To Make an Artificial Neural Network, We Need to Use the Most Universal Language Mathematics.

Inputs





ANN In Libraries in 1996!

NEURAL NETWORKS IN LIBRARIES: the Poten- tial of a New Information Technology

Tamas E. Doszkocs

National Library of Medicine Bethesda, Maryland, USA



Keywords: Artificial Neural Networks, Connectionist Models, Parallel Distri- buted Processing, Intelligent Information Retrieval, Associative Processing, Machine Learning, Library and Information Technologies.

Abstract: Conventional library applications, including information retrieval, data-base management, expert systems and multimedia, follow the von Neumann model of computing 1 in which sequentially executed computer programs (algorithms) operate on passive (symbolic) data in a predetermined way. Artificial Neural Networks (ANN) were born out of the difficulties in programming von Neumann computers to perform with human-like intelligence. Artificial Neural Networks represent a fundamentally different information processing paradigm better suited for the handling of perceptual and cognitive tasks that are routinely and efficiently performed by humans, yet have proved to be difficult or impossible to handle via traditional computing methods and technologies. Examples of such tasks involve associative information storage and recall, pattern recognition, common sense reasoning and learning. This paper will describe the potential of artificial neural network technology for self-organizing and adaptive information representation and retrieval, offering new and complementary capabilities for dynamic information categorization, generalization, feature extraction and learning. Existing and potential neural network applications in cataloging, indexing and online searching in libraries will be discussed.

1. Introduction

Historically, even the most imaginative library automation efforts have suffered from the fundamental limitation of traditional information processing approaches, namely their inability to manifest human-like behavior, such as learning, intelligence, adaptation and self-improve-

ment over time in response to changes in and interaction with their environment.

From the earliest days of computing, many researchers, from computer scientists and neurophysiologists to librarians and philosophers, have been interested in creating computers that mimic human behavior and excellence in handling perceptual and cognitive tasks that are easily accomplished by people, including young children, yet are handled clumsily, if at all, by conventional computing techniques. Familiar examples include recognizing faces, learning one's native tongue or a foreign language, and recalling complete information from fragmen-tary clues. Such basic capabilities have been the goal of artificial neural networks, also known as "connectionist models," and "parallel distributed processing".

In a 1990 survey, (Doszkocs, Reggia, & Lin, 1990) described emerging R & D applica-tions of neural network technology in library settings.

2. ARTIFICIAL neural networks



Knowledge Creation



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How It Works

Thanks!



Any Questions!?