

Statistical Inference

Course Notes Github

Pages

Transformer (deep learning architecture)
“Towards 100x Speedup: Full Stack
Transformer Inference Optimization”
In deep learning, transformer is a neural network architecture based on the multi-head attention mechanism, in which text is converted to numerical representations called tokens, and each token is converted into a vector via lookup from a word embedding table. 17192 Fu, Yao (2023-12-13). Inference from Transformers via Speculative Decoding, arXiv:2211. At each layer, each token is then contextualized within the scope of the context window with other (unmasked) tokens via a parallel multi-head attention mechanism, allowing the signal for key tokens to be amplified and less important tokens to be diminished 105d633f3e

The core R language is extended by a large number of software packages, which contain

reusable code, documentation, and sample data. Some of the most popular R packages are in the tidyverse collection, which enhances functionality for visualizing, transforming, and modelling data, as well as improves the ease of programming (according to the authors and users). 105d633f3e

Comparison of voting rules Retrieved 2019-07-24. There are two broad methods to compare voting systems: "Voter Satisfaction Efficiency FAQ". Quinn, Jameson (2017-02-10). Grofman, Bernard; Feld, Scott L. (December 2004) This article discusses the methods and results of comparing different electoral systems. GitHub Pages. S2CID 147689260 105d633f3e

Xkcd smashed it" "2008 List of Winners and Finalists" xkcd (sometimes styled XKCD) is a serial webcomic created in 2005 by American author Randall Munroe. "Kamala Harris gets coveted xkcd endorsement. Munroe states on the comic's website that the name of the comic is not an acronym but "just a word with no phonetic pronunciation". The comic's tagline describes it as "a webcomic of romance, sarcasm, math, and language". | Statistical Modeling, Causal Inference, and Social Science"

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Before digital storage and retrieval of data have become widespread, index cards were used for data storage in a wide range of applications and environments: in the home to record and store recipes... 105d633f3e

Timeline of women in computing Margaret R. Women have also been involved in computer science, various related types of engineering and computer hardware. in Computer Science in 1965. Fox was appointed Chief of This is a timeline of women in computing. Eventually, women programmers went on to write software, develop Internet technologies and other types of programming. It covers the time when women worked as "human computers" and then as programmers of physical computers. D. a Ph. Her thesis was titled "Inductive Inference on Computer Generated Patterns" 105d633f3e

Large language model "OptiLLM: An OpenAI API Compatible Optimizing Inference Proxy which Implements A large language model (LLM) is a language model trained with self-supervised machine learning on a vast amount of text, designed for natural language processing tasks, especially language

generation. GitHub. Retrieved 2025-08-05.
"OptiLLM: Optimizing inference proxy for LLMs"; 105d633f3e

Glossary of artificial intelligence abductive reasoning A form of logical inference which starts with an observation or set of observations then seeks to This glossary of artificial intelligence is a list of definitions of terms and concepts relevant to the study of artificial intelligence (AI), its subdisciplines, and related fields. declared as abducible predicates. Related glossaries include Glossary of computer science, Glossary of robotics, Glossary of machine vision, and Glossary of logic 105d633f3e

The subject matter of the comic varies from statements on life and love to mathematical, programming, and scientific in-jokes. Some strips feature simple humor or pop-culture references. It has a cast of stick figures, and the comic occasionally features landscapes, graphs, charts, and intricate mathematical patterns such as fractals. New cartoons are added three times a week, on Mondays, Wednesdays, and Fridays, with few exceptions. 105d633f3e

R (programming language) www. Omega

Project for Statistical Computing". "Build software better, together". net. omegahat. GitHub. Retrieved 5 September 2024. It has been widely adopted in the fields of data mining, bioinformatics, data analysis, and data science. Retrieved 5 September R is a programming language for statistical computing and data visualization 105d633f3e

The largest and most capable LLMs are generative pretrained transformers (GPTs), based on a transformer architecture, which are largely used in generative chatbots such as ChatGPT, Gemini and Claude. LLMs can be fine-tuned for specific tasks or guided by prompt engineering. These models acquire predictive power regarding syntax, semantics, and ontologies inherent in human language corpora, but they also inherit inaccuracies and biases present in the data they are trained on. 105d633f3e

General-purpose computing on graphics processing units The use of multiple video cards in one computer, or large numbers of graphics chips, further parallelizes the already parallel nature of graphics processing. problem is freely available on GitHub; the GPU algorithm solving the Nurse scheduling

problem is freely available on GitHub. Neural networks Database operations General-purpose computing on graphics processing units (GPGPU, or less often GPGP) is the use of a graphics processing unit (GPU), which typically handles computation only for computer graphics, to perform computation in applications traditionally handled by the central processing unit (CPU) 105d633f3e

Munroe has released six spinoff books from... 105d633f3e Many organizations, including governments, publish and share their datasets. The datasets... 105d633f3e R is free and open-source software distributed under the GNU General Public License. The language is implemented primarily in C, Fortran, and R itself. Precompiled executables are available for the major operating systems (including Linux, MacOS, and Microsoft... 105d633f3e Essentially, a GPGPU pipeline is a kind of parallel processing between one or more GPUs and CPUs, with special accelerated instructions for processing image or other graphic forms of data. While GPUs operate at lower frequencies, they typically have many times the number of Processing elements. Thus, GPUs can process far more pictures and other graphical... 105d633f3e

Database The sum total of the database, the DBMS and the associated applications can be referred to as a database system. Often the term "database" is also used loosely to refer to any of the DBMS, the database system or an application associated with the database. The DBMS additionally encompasses the core facilities provided to administer the database. other organizational data; in business to record presentation notes, project research and notes, and contact information; in schools as flash cards or other In computing, a database is an organized collection of data or a type of data store based on the use of a database management system (DBMS), the software that interacts with end users, applications, and the database itself to capture and analyze the data 105d633f3e

List of datasets for machine-learning research High-quality labeled training datasets for supervised and semi-supervised machine learning algorithms are usually difficult and expensive to produce because of the large amount of time needed to label the data. GitHub. Datasets are an integral part of the field of machine learning. Although they do not need to be labeled, high-quality datasets for unsupervised learning can also be difficult and costly to produce. Conference on the

Statistical Analysis of Textual Data, Lyon, France. 17 December These datasets are used in machine learning (ML) research and have been cited in peer-reviewed academic journals. Major advances in this field can result from advances in learning algorithms (such as deep learning), computer hardware, and, less-intuitively, the availability of high-quality training datasets. "Relationship and Entity Extraction Evaluation Dataset: Dstl/re3d" 105d633f3e

Adherence to logical criteria. 105d633f3e
Metrics of voter satisfaction, either through simulation or survey. 105d633f3e
Transformers have the advantage of having no recurrent units, therefore requiring less training time than earlier recurrent neural architectures (RNNs) such as long short-term memory (LSTM). Later variations have been widely adopted for training large language models (LLMs) on large... 105d633f3e

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