

A Reinforcement Learning Model Of Selective Visual Attention

Concept learning Thus, concept learning is a strategy which requires a learner to compare and contrast groups or categories that contain concept-relevant features with groups or categories that do not contain concept-relevant features. "A general framework for induction and a study of selective induction", S2CID 15441281. 1 (2): 177-226. doi:10. More simply put, concepts are the mental categories that help us classify objects, events, or ideas, building on the understanding that each object, event, or idea has a set of common relevant features. 1007/BF00114117 Concept learning, also known as category learning, concept attainment, and concept formation, is defined by Bruner, Goodnow, & Austin (1956) as "the search for and testing of attributes that can be used to distinguish exemplars from non exemplars of various categories". Rendell, Larry (1986). Machine Learning

The concept of concept attainment requires the following five categories:

Neural network (machine learning) In machine learning, a neural network (also artificial neural network or neural net, abbreviated ANN or NN) is a computational model inspired by the structure In machine learning, a neural network (also artificial neural network or neural net, abbreviated ANN or NN) is a computational model inspired by the structure and functions of biological neural networks

the definition of task; Motivational salience is composed of two component processes that are defined by their attractive or aversive effects on an individual's behavior relative to a particular stimulus: incentive salience and aversive salience. Incentive salience is the attractive form of motivational salience that...

Motivational salience Motivational salience regulates the intensity of behaviors that facilitate the attainment of a particular goal, the

amount of time and energy that an individual is willing to expend to attain a particular goal, and the amount of risk that an individual is willing to accept while working to attain a particular goal.

Motivational salience is a cognitive process and a form of attention that motivates or propels an individual's behavior towards or away from a particular object. Motivational salience is a cognitive process and a form of attention that motivates or propels an individual's behavior towards or away from a particular object, perceived event or outcome.

Large language model 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. 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.

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.

Ivan Pavlov, the Russian physiologist, studied classical conditioning with detailed experiments with dogs, and published the experimental results in 1897. In the study of digestion, Pavlov observed that the experimental dogs salivated when fed red meat. Pavlovian conditioning is distinct from operant conditioning (instrumental conditioning), through...

Attention deficit hyperactivity disorder ADHD symptoms arise from executive dysfunction. Attention deficit hyperactivity disorder (ADHD) is a neurodevelopmental disorder characterised by symptoms of inattention, hyperactivity, impulsivity. Attention deficit hyperactivity disorder (ADHD) is a neurodevelopmental disorder characterised by symptoms of inattention, hyperactivity, impulsivity, and emotional dysregulation that are excessive and pervasive, impairing in multiple contexts, and developmentally inappropriate.

Impairments resulting from deficits in self-regulation such as time management, inhibition, task initiation, and sustained attention can

include poor professional performance, relationship difficulties, and numerous health risks, collectively predisposing to a diminished quality of life and a reduction in life expectancy. As a consequence, the disorder costs society hundreds of billions of US dollars each year, worldwide. It is associated with other mental disorders as...

7b5a6c7a76 A neural network consists of connected units or nodes called artificial neurons, which loosely model the neurons in the brain. Artificial neuron models that mimic biological neurons more closely have also been recently investigated and shown to significantly improve performance. These are connected by edges, which model the synapses in the brain. Each artificial neuron receives signals from connected neurons, then processes them and sends a signal to other connected neurons. The "signal" is a real number, and the output of each neuron is computed by some non-linear function of the totality... 7b5a6c7a76

Operant conditioning reward or aversive stimuli. Operant Operant conditioning, also called instrumental conditioning, is a learning process in which voluntary behaviors are modified by association with the addition (or removal) of reward or aversive stimuli. The frequency or duration of the behavior may increase through reinforcement or decrease through punishment or extinction. The frequency or duration of the behavior may increase through reinforcement or decrease through punishment or extinction 7b5a6c7a76

Information processing theory Developmental psychologists who adopt the information processing perspective account for mental development in terms of maturational changes in basic components of a child's mind. According to the standard information-processing model for mental development, the mind's machinery includes attention mechanisms for bringing. or automatic responses Selective attention The central executive has two main systems: the visuo-spatial sketchpad, for visual information, and the phonological Information processing theory is the approach to the study of cognitive development evolved out of the American experimental tradition in psychology. This perspective uses an analogy to consider how the mind works like a computer. The theory is based on the idea that humans process the information they receive, rather than merely responding to stimuli. In this way, the mind functions like a biological computer responsible for analyzing information from the environment 7b5a6c7a76

Deep reinforcement learning Deep RL incorporates deep learning into the solution, allowing agents to make decisions from unstructured input data without manual engineering of the state space. g. maximizing the game score). g. RL considers the problem of a computational agent learning to make decisions by trial and error. every pixel rendered to the screen in a video game) and decide what actions to perform to optimize an objective (e. RL considers the problem Deep reinforcement learning (deep RL) is a subfield of machine learning that combines reinforcement learning (RL) and deep learning. Deep RL algorithms are able to take in very large inputs (e. Deep reinforcement learning has been used for a diverse set of applications including but not limited to robotics, video games, natural language processing, computer vision, education, transportation. Deep reinforcement learning (deep RL) is a subfield of machine learning that combines reinforcement learning (RL) and deep learning 7b5a6c7a76

Mamba (deep learning architecture) It is based on the Structured State Space sequence (S4) model. It was developed by researchers from Carnegie Mellon University and Princeton University to address some limitations of transformer models, especially in processing long sequences. It was developed by researchers from Carnegie Mellon University and Princeton University Mamba is a deep learning architecture focused on sequence modeling. Mamba is a deep learning architecture focused on sequence modeling 7b5a6c7a76

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Classical conditioning the sound of a musical triangle). postscript (link) Dayan P, Kakade S, Montague PR (November 2000). It is essentially equivalent to a signal. Nature Neuroscience. The term classical conditioning refers to the process of an automatic, conditioned response that is paired with a specific stimulus. g. 1038/81504 Classical conditioning (also respondent conditioning and Pavlovian conditioning) is a behavioral procedure in which a biologically potent stimulus (e. doi:10. g. food, a puff of air on the eye, a potential rival) is paired with a neutral stimulus (e. 3 Suppl: 1218-23. "Learning and selective attention"; 7b5a6c7a76

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