

Inteligencia Artificial

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In 1943, Warren Moulloch and walter Pitts presented the First recognized work in articial intelligence (Al), proposing a model of artificial neural network.

Despite the binary neural model's later experimentals shorts comings McCulloch became a key Figure in Al John von newman influenced by Moulloch's work Supported the creation of the First neural network Computer in 1951.

1.2.2 The rise of artificial intelligence, or the era of great expectations

In the 1956 to 1960 era of Al, marked by the Dartmouth workshop, John Moarthy corned the term artificial intelligence and developed the Usp lenguage He proposed the advice taker, the First Knowledge-based sixtem. Marvin Minsk introduced the theory of rames, Advanced in neural compoting continued and the general problem soiger (CAPS) by Allen newell and Herbert Simon aimed to simulated human problem but Faced challenged and was abandoned.

1.2.3 Unfulfilled promises, or the impact of reality
In late 1960's -early 1970's, Al researchers fell short of
promises to create human-scale intelligent machine by
the 1980's. White some programs showed limited
intelligence in toy problems, brander task and
real-world Challenges proyect difficult Al faced isso
with general methods lacking domains-specific
Knowledge and a mis conception about scaling up.

1.2.4 The technology of expert systems, or the Key In the early 1970's a cruckal shift occurred in Al with the realization the successful intelligent machines needed to focus on narrow domains. this marked a paradigm shift from general-purpose Knowledge-Sporse, Weak methods to domains, Knowledge - intensive techniques The DBNDBAL program explicities this shift by Successfully analyzing chemicals, using specific rule From homan expert, forming the base of the first Knowledge-based system. DENDRAL'S significance included a paradigm shift Al, achieving expert level performance in normal domains and the methodology of expert systems. 1.2.5 How to make a machine loom, or the dirth of neural network In the mild-1980 disilosionment with expects systems led to reevaluation of Al approaches, triggering a resurgence of interest in neural networks. Although foundational concepts for neural Computing existed since the late 1960's technological limitations and theoretical setback, such as minky and paperts work on one layer perceptions, hindured progress in 1970 Saw dramatic revival of neural network due to advancement: in computer the chrology, progress in necroscience and the brain like the information procesing.

1.2.6 Evolutionary computation, or learning by doing Evolutionary computation in Al draws inspirations from natural evolution, simulating biological processes to achieve high-level intelligence. This involving simulating population, evaluating performance and generating new population. The three main techniques are generic algorithms, evolutionary strategies and genetic programming. 1.2.7 The new era of knowledge engineering or computer with words Neoral network technology, with ability lo learn adapt, and handle forzy nervral network complement or incorporate information provides a more natoral interaction with the real world than simbolic reasoning system. Despite lacking explanation facilities and training processes, neural network complement expert systems. Expert systems, proficient inclosed-system applications, benefit from neural networks in extracting hidden knowledge from large datasets.