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artificial neural network is a network of simple elements called artificial neurons, which receive input, change their internal state (activation) according to that input, and produce output depending on the input and activation. The network forms by connecting the output of certain neurons to the input of other neurons forming a directed, weighted graph. Artificial intelligence (AI), sometimes called machine intelligence, is intelligence demonstrated by machines, in contrast to the natural intelligence displayed by humans and other animals. In computer science AI research is defined as the study of "intelligent agents": any device that perceives its

environment and takes actions that maximize its chance of successfully achieving its goals., (Third edition) by Stuart Russell and Peter Norvig. The leading textbook in Artificial Intelligence. Used in over 1300 universities in over 110 countries. The 22nd most cited computer science publication on Citeseer (and 4th most cited publication of this century). Artificial neural networks are algorithms that can be used to perform nonlinear statistical modeling and provide a new alternative to logistic regression, the most commonly used method for developing predictive models for dichotomous outcomes in medicine. Sorghum grain (*Sorghum bicolor*) is an important ingredient in poultry diets with approximately 95% of the nutritional value of corn (Hulan & Proudfoot, 1982; Dowling et al., 2002; Black et al., 2005). Certain agronomic characteristics, such as drought tolerance, allow sorghum to be grown in diverse ..., Introduction to neural networks Definition: the ability to learn, memorize and still generalize, prompted research in algorithmic modeling of biological neural systems, In recent years, deep artificial neural networks (including recurrent

ones) have won numerous contests in pattern recognition and machine learning., Artificial intelligence is a branch of computer science, involved in the research, design, and application of intelligent computer. Traditional methods for modeling and optimizing complex structure systems require huge amounts of computing resources, and artificial-intelligence-based solutions can often provide valuable alternatives for efficiently solving problems in the civil engineering., Hacker's guide to Neural Networks. Hi there, I'm a CS PhD student at Stanford. I've worked on Deep Learning for a few years as part of my research and among several of my related pet projects is ConvNetJS - a Javascript library for training Neural Networks. Javascript allows one to nicely visualize what's going on and to play around with the various hyperparameter settings, but I still ..., Modern artificial vision systems are based on deep neural networks that consume large, labeled datasets to learn functions that map images to human-generated scene descriptions., In

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