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An 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.2016 : AAAI/EAAI Outstanding Educator Award (with Stuart Russell) 2013 : Fellow of the American Academy of Arts and Sciences 2013 : Fellow of the California Academy of Science.Summary In this talk I will discuss some gradient-based approaches to hyperparameter optimization and meta-learning, focusing on algorithmic aspects and potential applications.Dr. B Rajalakshmi, Professor & Head - Computer science and Engineering. The Department of Computer Science and Engineering at NHCE was established in the year 2001 and offers graduate, post graduate and PhD programs.