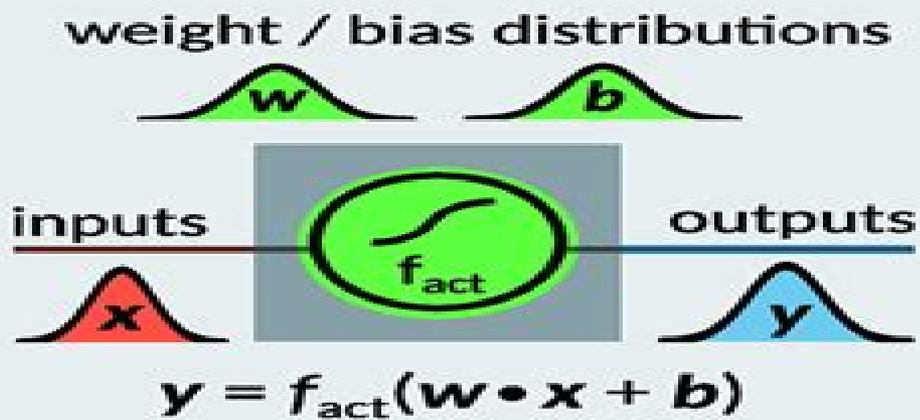
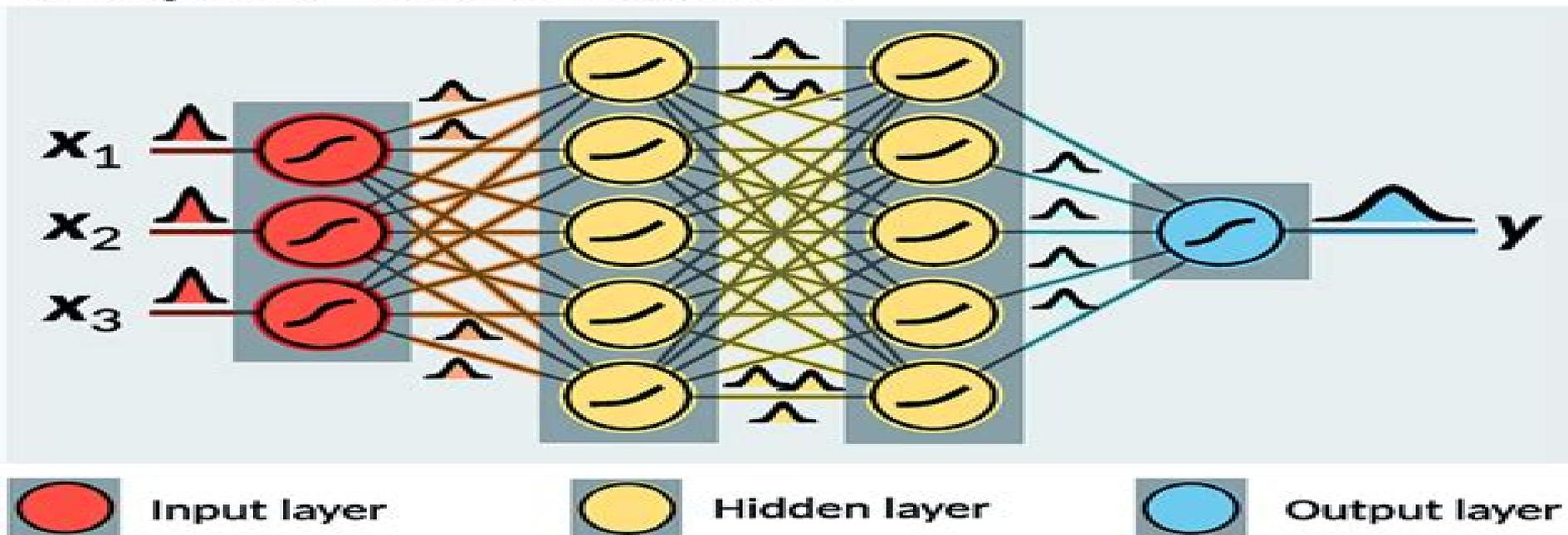


## A) Single Bayesian neuron



## B) Bayesian neural network



# Bayesian Learning For Neural Networks

**Ke-Lin Du, M. N. S. Swamy**



## **Bayesian Learning For Neural Networks:**

Bayesian Learning for Neural Networks Radford M. Neal, 2012-12-06 Artificial neural networks are widely used as flexible models for classification and regression applications but questions remain about how the power of these models can be safely exploited when training data is limited This book demonstrates how Bayesian methods allow complex neural network models to be used without fear of the overfitting that can occur with traditional training methods Insight into the nature of these complex Bayesian models is provided by a theoretical investigation of the priors over functions that underlie them A practical implementation of Bayesian neural network learning using Markov chain Monte Carlo methods is also described and software for it is freely available over the Internet Presupposing only basic knowledge of probability and statistics this book should be of interest to researchers in statistics engineering and artificial intelligence

Consistent Bayesian Learning for Neural Network Models Sanket Rajendra Jantre, 2022 Bayesian framework adapted for neural network learning Bayesian neural networks have received widespread attention and successfully applied to various applications Bayesian inference for neural networks promises improved predictions with reliable uncertainty estimates robustness principled model comparison and decision making under uncertainty In this dissertation we propose novel theoretically consistent Bayesian neural network models and provide their computationally efficient posterior inference algorithms In Chapter 2 we introduce a Bayesian quantile regression neural network assuming an asymmetric Laplace distribution for the response variable The normal exponential mixture presentation of the asymmetric Laplace density is utilized to derive the Gibbs sampling coupled with Metropolis Hastings algorithm for the posterior inference We establish the posterior consistency under a misspecified asymmetric Laplace density model We illustrate the proposed method with simulation studies and real data examples Traditional Bayesian learning methods are limited by their scalability to large data and feature spaces due to the expensive inference approaches however recent developments in variational inference techniques and sparse learning have brought renewed interest to this area Sparse deep neural networks have proven to be efficient for predictive model building in large scale studies Although several works have studied theoretical and numerical properties of sparse neural architectures they have primarily focused on the edge selection In Chapter 3 we propose a sparse Bayesian technique using spike and slab Gaussian prior to allow for automatic node selection The spike and slab prior alleviates the need of an ad hoc thresholding rule for pruning In addition we adopt a variational Bayes approach to circumvent the computational challenges of traditional Markov chain Monte Carlo implementation In the context of node selection we establish the variational posterior consistency together with the layer wise characterization of prior inclusion probabilities We empirically demonstrate that our proposed approach outperforms the edge selection method in computational complexity with similar or better predictive performance The structured sparsity e.g node sparsity in deep neural networks provides low latency inference higher data throughput and reduced energy consumption Alternatively there is a vast albeit growing

literature demonstrating shrinkage efficiency and theoretical optimality in linear models of two sparse parameter estimation techniques lasso and horseshoe In Chapter 4 we propose structurally sparse Bayesian neural networks which systematically prune excessive nodes with i Spike and Slab Group Lasso and ii Spike and Slab Group Horseshoe priors and develop computationally tractable variational inference We demonstrate the competitive performance of our proposed models compared to the Bayesian baseline models in prediction accuracy model compression and inference latency Deep neural network ensembles that appeal to model diversity have been used successfully to improve predictive performance and model robustness in several applications However most ensembling techniques require multiple parallel and costly evaluations and have been proposed primarily with deterministic models In Chapter 5 we propose sequential ensembling of dynamic Bayesian neural subnetworks to generate diverse ensemble in a single forward pass The ensembling strategy consists of an exploration phase that finds high performing regions of the parameter space and multiple exploitation phases that effectively exploit the compactness of the sparse model to quickly converge to different minima in the energy landscape corresponding to high performing subnetworks yielding diverse ensembles We empirically demonstrate that our proposed approach surpasses the baselines of the dense frequentist and Bayesian ensemble models in prediction accuracy uncertainty estimation and out of distribution robustness Furthermore we found that our approach produced the most diverse ensembles compared to the approaches with a single forward pass and even compared to the approaches with multiple forward passes in some cases

Machine Learning, Deep Learning and Neural Networks Mr.Chitra Sabapathy Ranganathan,2024-04-02 Mr Chitra Sabapathy Ranganathan Associate Vice President Mphasis Corporation Arizona USA **Neural Networks and Statistical Learning** Ke-Lin Du,M. N. S. Swamy,2019-09-12 This book provides a broad yet detailed introduction to neural networks and machine learning in a statistical framework A single comprehensive resource for study and further research it explores the major popular neural network models and statistical learning approaches with examples and exercises and allows readers to gain a practical working understanding of the content This updated new edition presents recently published results and includes six new chapters that correspond to the recent advances in computational learning theory sparse coding deep learning big data and cloud computing Each chapter features state of the art descriptions and significant research findings The topics covered include multilayer perceptron the Hopfield network associative memory models clustering models and algorithms t he radial basis function network recurrent neural networks nonnegative matrix factorization independent component analysis probabilistic and Bayesian networks and fuzzy sets and logic Focusing on the prominent accomplishments and their practical aspects this book provides academic and technical staff as well as graduate students and researchers with a solid foundation and comprehensive reference on the fields of neural networks pattern recognition signal processing and machine learning Brain-inspired Cognition and Understanding for Next-generation AI: Computational Models, Architectures and Learning Algorithms Chenwei Deng,Guang-Bin Huang,Yuqi Han,2023-04-19

Neural Networks and Learning Machines Simon S. Haykin, 2009 For graduate level neural network courses offered in the departments of Computer Engineering Electrical Engineering and Computer Science Renowned for its thoroughness and readability this well organized and completely up to date text remains the most comprehensive treatment of neural networks from an engineering perspective Matlab codes used for the computer experiments in the text are available for download at <http://www.pearsonhighered.com/haykin> Refocused revised and renamed to reflect the duality of neural networks and learning machines this edition recognizes that the subject matter is richer when these topics are studied together Ideas drawn from neural networks and machine learning are hybridized to perform improved learning tasks beyond the capability of either independently

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