

Statistical Mechanics

Bayesian Probabilities; Machine Learning

①

Partition function

$$Z = \sum_j \exp(-\beta E_j)$$

②

Probability (density)

$$p_j = \frac{1}{Z} \exp(-\beta E_j)$$

③

Entropy

$$S = -\sum p(x) \ln p(x)$$

④

Helmholtz free energy, A

$$A = U - TS$$
$$U = \langle E_j \rangle + \langle E_{ij} \rangle$$

Ising model and variants

Hopfield neural network

Boltzmann machine

⑤

Bayesian logic:
conditional probability

$$p(y|x) = p(y,x) / p(x)$$

⑥

Kullback-Leibler divergence

$$D_{KL} = \sum q(y) \ln(q(y) / p(y))$$

⑦

Variational Bayes

$$q^*(y) = \arg \min_{q(y) \in Q} KL(q(y) || p(y,x))$$

Topics In Statistical Mechanics

L Manion



Topics In Statistical Mechanics:

Decoding **Topics In Statistical Mechanics**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Topics In Statistical Mechanics**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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