

FINAL EXAM
ECEN 446 - Neural Networks
Information Theory, Inference, and Learning Algorithms

Joseph J. Boutros, 11 July 2021

Three Problems in Inference and Neural Networks (100 points)

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Part I - Information Theory (20 points)

We recall that, for a discrete random variable $X \in \mathcal{X} = \{x_1, x_2, \dots, x_M\}$, the entropy of X is defined as

$$\begin{aligned} H(X) &= - \sum_{x \in \mathcal{X}} \mathbb{P}(X = x) \log(\mathbb{P}(X = x)) \\ &= - \sum_{x \in \mathcal{X}} p_X(x) \log(p_X(x)) = - \sum_{i=1}^M p_i \log(p_i), \end{aligned} \quad (1)$$

where $p_X(x)$ is the probability mass function of X and $p_i = \mathbb{P}(X = x_i) = p_X(x_i)$, $i = 1 \dots M$. Here, the integer M could be finite or infinite (to be replaced by ∞), e.g. if X is Poisson. For continuous random variables, we recall the similar definition of differential entropy

$$h(X) = - \int_{-\infty}^{\infty} p_X(x) \log(p_X(x)) dx, \quad (2)$$

where $p_X(x)$ is the probability density function of X , $X \in \mathbb{R}$.

(a) Let $X_1 \sim \text{Bernoulli}(p_1)$ and $X_2 \sim \text{Bernoulli}(p_2)$, X_1 and X_2 independent. Define $S = X_1 + X_2$, where the sum is modulo 2. Find the expression of the entropy of S as a function of p_1 and p_2 .

Hint: Determine $\mathbb{P}(S = 0)$ and $\mathbb{P}(S = 1)$.

(b) Compute $H(S)$ for $p_1 = 1/2$ and any p_2 . Compute $H(S)$ for $p_1 = p_2 = 1/4$. Does the entropy increase after modulo 2 addition?

Hint: Compare $H(S)$ to $H(X_1)$.

(c) Now $S = X_1 + X_2$ where $+$ is the standard addition in \mathbb{R} . The two random variables are not independent, their joint distribution is given by the following table

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