Machine Learning and Deep Learning II – Homework 2

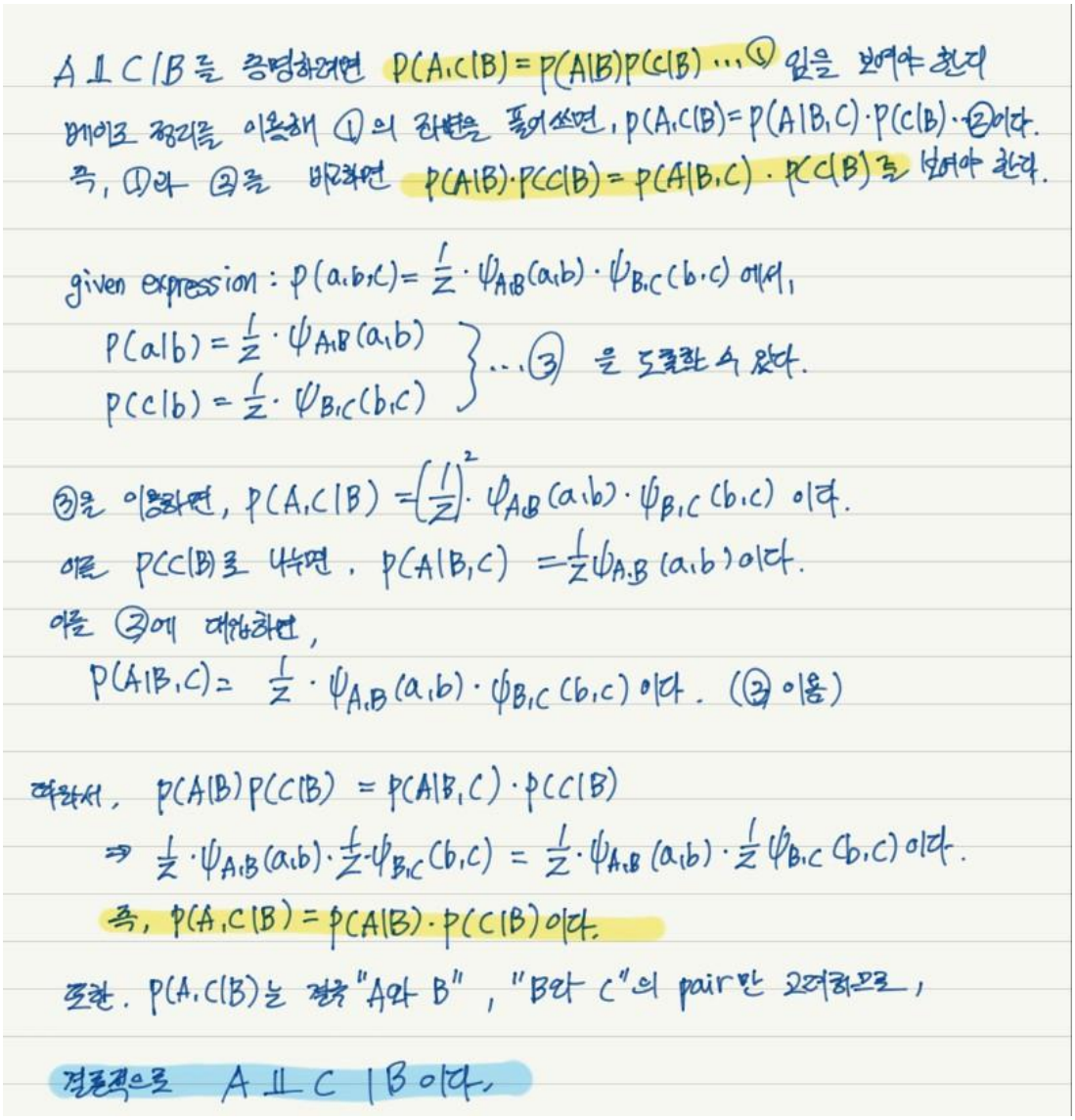
2022-22047 데이터사이언스학과 신성구

[Proof]

1. [15 pts] Consider P(a, b, c) modeled using an MRF with an undirected graph H shown below:

Where: P(a, b, c) = 1 Z ψA,B(a, b)ψB,C(b, c).

Prove A⫫C | B by showing P(A, C | B = b) = P(A | B = b)P(C | B = b) using the above expression.



[Reading homeworks]

2. [5 pts] Read XGBoost paper https://arxiv.org/abs/1603.02754 up to Section 3.1. Please indicate (just write yes) that you will read it by Midterm exam.

➔ Yes

3. [5 pts] (Reading homework) Read GPML Book http://gaussianprocess.org/gpml/chapters/RW.pdf about Mauna Loa Atmospheric Carbon Dioxide (p118–122). Please indicate that you will read it by Midterm exam.

➔ Yes

4. [5 pts] (Reading homework) Read 'How to Use t-SNE Effectively' https://distill.pub/2016/misread-tsne/. Please indicate that you will read it by Midterm exam.

➔ Yes