Mining massive Datasets WS 2017/18

Problem Set 8

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Exercise 01

a) The probability that C1 and C2 are matched?

QuastionnairesCount = b ($Q_1, ..., Q_b$)

QuestionCount = r

 ${\bf QuestionCountSum} = b*r$

MatchCondition = if $(mQ_x(\mathbf{r}) == fQ_x(r))$ //m = person1, f = person2, x = element of b

 $Probability-of-an-event-happening = \frac{Number-of-ways-it-can-happen}{Total-number-of-outcomes}$

Propability that 1 Questionair matsches: $(\frac{1}{r})^r * b$

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b) The probability that exactly two (no matter which) questionnaires match, i.e. have the same answers for both C1 and C2.

Exercise 02

MISSING

Exercise 03

MISSING

Exercise 04

MISSING

Exercise 05

MISSING

Exercise 06

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Exercise 07

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