14) Data set D of size 10% = d
d times sampling with replacement
from D gives a training set of d samples Ead data entry of D has probability of I to get sampled. Sampling d'times results in (1)
probability loget sampled (with
replacement). Or $(1-\frac{1}{d})$ probability not being sampled. $\lim_{d\to 3} \left(1 - \frac{1}{d}\right)^d = \frac{1}{e} \sim 0.368 \text{ not being}$ or $1-\frac{1}{e}=0,632$ being selected. Doubling drawn samples:

=> lim (1-1) $\sim \frac{1}{e^2} \sim 0.135$ from

being selected or 1-0.135 ~ 0.865 being selected.

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