

CS 8725: Report for assignment 2

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1. Parameters list

$$P(Y)$$

$$P(X_1|Y = y), \quad y \in \{T, F\}$$

$$P(X_i|Y = y) \sim N(\mu_i, \sigma_i^2), \quad y \in \{T, F\}, 2 \leq i \leq d$$

Total number of parameters = $1 + 2 + 2 \times 2 \times (d - 1) = 4d - 1$.