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In the DRF model, we have

$$\mathrm{P}(\vec{x} \mid \vec{y}) = \frac{1}{Z} \exp\left(\sum_{i \in S} \log(\sigma(x_i \vec{w}^\top \vec{h}_i(\vec{y}))) + \sum_{i \in S} \sum_{j \in \mathcal{N}_i} x_i x_j \vec{v}^\top \vec{\mu}_{ij}(\vec{y}) \right).$$

Each $x_i \in \{-1, 1\}$. Greig et al. used

Following Greig et al., we write the log apart from an additive constant:

$$L(\vec{x} \mid \vec{y}) = \sum_{i \in S} \log(\sigma(x_i \vec{w}^\top \vec{h}_i(\vec{y}))) + \sum_{i \in S} \sum_{j \in \mathcal{N}_i} x_i x_j \vec{v}^\top \vec{\mu}_{ij}(\vec{y}).$$

Rewriting,

$$L(\vec{x} \mid \vec{y}) = \sum_{i \in S} \log(\sigma((\vec{w}^\top \vec{h}_i(\vec{y})) x_i)) + \sum_{i \in S} \sum_{j \in \mathcal{N}_i} (\vec{v}^\top \vec{\mu}_{ij}(\vec{y})) x_i x_j.$$