







Pebbles

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COMPONENTS OF MODELS

- $\blacktriangleright \ \, \Lambda_{ij} := Label^q \ where \ q = \underset{p}{\text{arg max}} \ \Sigma_{ij}^p$
- lacksquare Λ^p_i : counts of Λ_{ij} which equals to Label p
- λ_{ij} : length of stem_{ij}

- * in case that $\Sigma^p = 0$, $\rho_i^p := 0$

$$\begin{split} & \quad \boldsymbol{\Pi}_{ij}^p \coloneqq \frac{\boldsymbol{\Sigma}_{ij}^p}{\boldsymbol{\Sigma}_{q-1}^n \, \boldsymbol{\Sigma}_{ij}^q} \\ & \quad \text{(it can be considered as probability of stem}_{ij} \, \text{labelled with category with p index)} \end{split}$$

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COMPONENTS OF MODELS

- $\qquad \qquad \overline{\Pi^p_i} := average_{j*} \left(\Pi^p_{ij*}\right) \! such \ that \ all \ "j*"s \ meet \ the \ condition \ \Pi^p_{ij*} > 0$ * in case that $\Sigma_{ij}^p = 0$ for all $p = 1,2,...n,\overline{\Pi_i^p} = \theta$
- $\qquad \qquad \widehat{\Pi_i^p} \coloneqq \max_j(\Pi_{ij}^p)$

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