Assignment 16 Evaluate the score fin for $\Pi(s, a, \theta) = \frac{e^{\phi(s, a)}\theta}{\sum_{k \in \mathcal{N}(s, k)}\theta}$ $\log \pi = \vec{\phi}(s, a)\vec{\theta} - \log(\Sigma_b e^{\vec{\phi}(s, b)\vec{\theta}})$ $\overrightarrow{\nabla}_0 \log \Pi = \overrightarrow{\phi}(s, \alpha) - \frac{1}{\sum_{k} \overrightarrow{\phi}(s, k)} \overrightarrow{\widehat{\phi}} \cdot \sum_{k} e^{\overrightarrow{\phi}(s, k)} \overrightarrow{\widehat{\phi}} \cdot \overrightarrow{\phi}(s, k)$ $= \dot{\phi}(s, a) - \sum_{b} \pi(s, b; \hat{\theta}) \dot{\phi}(s, b)$ Construct Q(sain) Consider: Q(s,a; w) = \$\phi\$ (s,a) \$\vec{w} - \Sigma_1 \Pi(s,b;\vec{\theta}) \phi(s,b) \$\vec{w}\$ We can wheele that \$\overline{\pi} Q = \overline{\psi} (s_a) - \Dig \mathread (s_b) = \overline{\psi} \log \overline{\pi} \) Check that Q is zero-man En Q(s,a; w) = Zacy TT (s,a; v) = 0 = $\sum_{\alpha \in I} \pi(s_{\alpha}; \vec{\theta}) \cdot (\vec{\phi}(s_{\alpha}) \vec{w} - \sum_{b} \pi(s_{b}; \vec{b}) \vec{\phi}(s_{b}) \vec{w})$ = Zacz T(spaje) \$\varphi(spaje) + (Zacz T(spaje)) (Z T(spaje) \$\varphi(spaje)\$

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