[Dependencies]

Files

17.2

18

ccb\_explore\_adf

parameterized policies

ccb\_explore\_adf -> cb\_sample

cb\_adf -> csoaa\_ldf

Illustrative PRs

https://arxiv.org/pdf/1802.04064.pdf

ccb\_explore\_adf -> cb\_explore\_adf\_greedy -> \

How are the policies in VW parameterized?

From the Section 2, paragraph on parameterization in the Bakeoff arxiv version

We consider linearly parameterized policies taking the form  $\pi(x) = \arg\min_a \theta_a^T x$  or in the case of IWR reduction, regressors  $f(x,a) = \theta_a^T x$ . For DR loss estimator, the loss estimators is also linear, and this can be extended to more complex action dependent features for different actions. in which case the parameterization is of the form  $f(x,a) = \theta^T x_a$ ,  $\hat{l}(x,a) = \phi^T x_a$ . We consider linearly