How Well Does This Approach Work?

Doc d_i

Cavaliers vs. Golden State Warriors: NBA playoff finals ... basketball game ... travel to Cleveland ... star ...

$$\theta_1$$
 "Sports"

$$\pi_{i1} \propto c("sports", d_i) = 0$$

$$\theta_2$$
 "Travel"

$$\pi_{i2} \propto c("travel", d_i) = 1 > 0$$

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2. "Star" can be ambiguous (e.g., star in the sky).

$$\theta_k$$
 "Science"

$$\pi_{ik} \propto c("science", d_i) = 0$$

3. Mine complicated topics?

1. Need to count

related words also!