GeoHash Retrieval

Thursday, March 21, 2024 8:45 AM

GeoHash Retneval:

1) user may be interested in items in their neighborhood.

2 Gestlash: "embedding" of longitude and latitude.

correspond to a rectangle area on map

3 index: GeoHash -> popular items (from new to old)

4) No personalization in this retrieval.

merely based on GosHash code.

Visuelization:

Gestlash The newest K high-quality items item#1.... item#k ABCDE GACVC item #1, item #k

item #1 item #k CFAGX

Similar whapt can be used for "city-based retheval" Instead of using "GeoHash" ade, use "city" instead.

Author-Based Retrieval

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Author-Based Retneval:

- 1 wers follow some authors (influencer)
- ② Index 1: user → following authors

 author → published posts

 ("author" is also "user")
- 3 Retheval: wer --- following authors --- newly published posts

Interaction Author Retrieval:

- ① user likes a post, then potentially like other notes published by the same author
- 2 index: user -> interacted authors
- 3 Retheval: wer interacted authors most recent posts

Simlar Author Retneval:

- 1) if user likes an author, then they must like similar authors
- 2 index: author -> k similar authors
- 3 retalevel: user -> potentially like authors -> similar authors

 (n authors) (n.k authors)

most recent notes (n.k. notes)



Cache - Based Retheval:

- 1) some items were retneved and ranked, but NOT exposed to were because of "re-ordering"
 - 2) put top 50 items but not exposed into cache and used as retrieval results
 - 3) cache has a fixed size: need "pop out" mechanism
 (a) once exposed to wer, remove it
 - (b) if cache limit is reached, remove the oldest item.
 - (c) each item can only be retrieved N times after N times. remove it
 - (d) each item is stored X days.

 after X days. remove it.