Learned Indexes

| Martine learning in databases: 07.03.18 |
|---|
| · Hashtables Tylu Einot Bethyon · Btaces |
| |
| Performance à melese |
| 1. Type a Query (Range-exact) |
| 2. Lookup Speed |
| 3. Cost so delete |
| 4 Size 8 Utilizedion |
| S. Minimige (410 access) marsher other Operations |
| Hosh table · Collusion handly technique Cuckoo hashing hash table |
| Oata Mash Antegor 7 |
| -ve Range Queries (B trees better) Soil utilization Database |
| B-Tale |
| |
| D O O |





- · sorted
- . Range Queries
- · Querty some (10gh)/search & Delete
- · Must be balanced
- " Split Operation (Insertion, Deletion) Exche Cost

Learned anderses

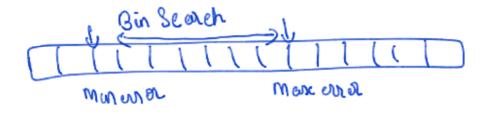
- · Estimation => (bunc) * Rey => Regnersion
- · Mc can be used?





Adu .

. Takes into amount distribution of deta



 η_{0} Small fully Connected

Btace us Learned anderson

- · Speedup · Better speace anpronoment
- · Sauc node Size

Results & Constabion

models take with account distribution

- · Overbrilg is the goal Accuracy
- · Data Darehowing application?
- · Andere wring new not grow wing ML model. Standard under grows
- · Monetau > x dead Clerrical CPU[x mentization]
- · ML modulo >> partidization
- · Mallidemoision data?

OSA

- Subfax us Otree
- · Retrain of consection of seconds (train in 184)
- nostude un set masso lebom con

- · Coul GAN can be used to generate induces? (cluster)
- · Pentietzation in GPU, per databases
- · HOW Mr model sours deila?
 - -> Harmaps produces Un formaistabention
 - Java hash collusion.
 - > why GPU > CPU?
 - · apu now verter fintractions
 - · CPU does on 64 bit instruction
 - . SIR bits & bit instruction, clock cycle is
 - Process 16 times fasta, but elk in 4 times slower.

Last modified: 1:56 PM