Machine Yearning
Search Engine

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Team Goals

-faster indexing

-faster search

-create nice UI (search helper features)

-index more than wikipedia

Key Design Elements/Results

Front-End

- Live search suggestions - auto-complete feature
- "I'm Feeling Lucky" quick search feature
- "Did you mean" spell-check feature
- Keyword search - AND, OR, MINUS

Back-End

- Pages stored locally (no live fetching)
- TF-IDF implementation for faster search

Technologies Used

1. Java
2. Apache Tomcat
3. Apache Lucene Library
4. Wikipedia API
5. Java Server Pages
6. HTML/CSS/JavaScript

Learning Outcome

-Biggest challenge: connecting front-end & back-end

-Worked: TF-IDF, Search Keywords, Autocomplete, Spell Check, Quick Search

-Didn't work: profiler

-To be improved: Search speed by storing index locally (no redis)