



## Enterprise Search and Text Analytics for a Publication Giant



### THE CLIENT

The client is a scientific publication company.



### BUSINESS NEED

The client wanted ALTEN Calsoft Labs to do the following for them.

- ⦿ Store huge amount of unstructured publication data
- ⦿ Search relevant documents based on search terms



### TECHNOLOGY USED

- ⦿ **Platform:** Hadoop
- ⦿ **File System:** Hadoop Distributed File System
- ⦿ **Paradigm:** MapReduce
- ⦿ **Machine Learning Tools:** Mahout
- ⦿ **Language:** R



### BUSINESS BENEFITS

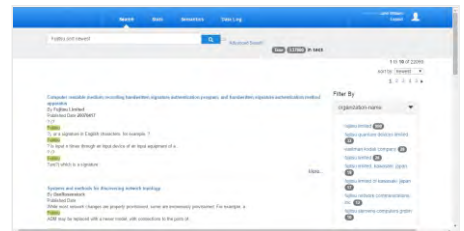
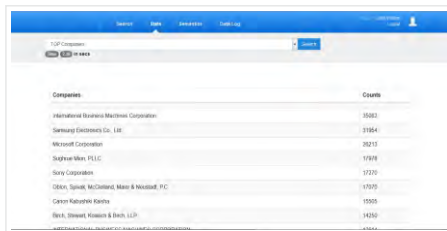
- ⦿ Easy discovery of relevant documents
- ⦿ Boolean Search Support



### SOLUTION DELIVERED

ALTEN Calsoft Labs' expert team did the following to shape the client's requirement.

- ⦿ Developed search grammars that include AND, OR, NAND, 1, 2 and 3 character search, phrase search and NEAR to name a few.
- ⦿ Ensured enhanced search performance
  - Based on the query string
  - Search will be longer for the query string that occurs in more number of documents
  - The search results are around ~1.5 secs to ~10 seconds
  - Filters are generally fast, usually ~2 seconds
- ⦿ Conducted analysis (Semantics and Stats pages) based on preset KPIs or definitions with which, an analysis can be done on the data



### ABOUT ALTEN CALSOFT LABS

ALTEN Calsoft Labs is a next gen digital transformation, enterprise IT and product engineering services provider. The company enables clients innovate, integrate, and transform their business by leveraging disruptive technologies like mobility, big data, analytics, cloud, IoT and software-defined networking (SDN/NFV). ALTEN Calsoft Labs provides concept to market offerings for industry verticals like education, healthcare, networking & telecom, hi-tech, ISV and retail. Headquartered in Bangalore, India, the company has offices in US, Europe and Singapore. ALTEN Calsoft Labs is a part of ALTEN group, a leader in technology consulting and engineering services.

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