Is it just a buzzword?

WHERE SHOULD WE FOCUS THIS YEAR?

"BLOCKCHAIN"

IT WILL CHANGE EVERYTHING.

EVERYBODY IS TALKING ABOUT IT.

THE POTENTIAL APPLICATIONS ARE ENDLESS.

WE DON'T WANT TO BE LEFT BEHIND.

WHAT EXACTLY IS BLOCKCHAIN?

ALSO, "ARTIFICIAL INTELLIGENCE"

TOM FISH BURNE
Tech Tent: Is AI more than just a buzzword?

Rory Cellan-Jones
Technology correspondent @BBCRoryCJ

17 August 2018

Is AI just another meaningless buzzword?

Richard Pridham, Investor, President & CEO at Retina Labs

December 29th, 2017

AI seems to be the big thing nowadays. Expectations have been high for a long time, leading to a degree of disappointment. The problem is that AI is a lot harder to deliver on than people expect. In my mind it has been very much a case of 'hype over reality'.

AI just another meaningless buzzword?
“Artificial Intelligence” is what it’s called before it works.

After it works, it’s just a product.
The Great A.I. Awakening

How Google used artificial intelligence to transform Google Translate, one of its more popular services — and how machine learning is poised to reinvent computing itself.

December 2016
What does AI really mean for libraries?
Our world...
Affects the library
Like any business, libraries must reinvent themselves
Library of the future survey

• N=168
• Audience: Ex Libris Customers
• Time: June – July 2018
Which technologies will be adopted by libraries in the next 10 years

Main Insights: >50% Of libraries have already adopted or plan to adopt advanced technologies | AI, Voice Recognition and technologies for teaching and learning > 30% (indicating that these technologies will be adopted in the coming years)
What have we learned from the survey?

Focus on Library efficiencies: Doing more with less

A lot is still unknown

No matter how you look at it, advanced technologies are being adopted / will be adopted

Focus on experiences: Teaching and Learning

The Library is becoming more than just a ‘library’
Library Trends
Today & Tomorrow - Library of Experiences (just a few examples)

- Indoor Living Lab
- Makers space initiatives
- LibrARi (AR – Augmented Reality)

Community Engagement

Virtual Library

IoT
BIG DATA

BIG THING
Highlights from a whitepaper we recently released

How AI can help libraries?

• Improve operational efficiency

• Engage larger audiences through better user experience and new services

• Help librarians achieve their new goals

• Establish a strong foothold for libraries in the new scholarly information landscape
DARA - Data Analysis Recommendation Assistant

Smart Library Decisions
DARA - Data Analysis Recommendation Assistant
Who is DARA

- Smart decision-support engine, driven by adaptive technology that brings machine learning into the library.

- DARA recommends Alma workflow efficiencies, suggests features, and validates custom configurations.

- With seamless integration, DARA can implement many of its recommendations with a single click.
Why DARA

Librarians are dealing mostly with daily routines but are expected to do more.

Alma is growing with additional features every month.

The Alma community big data is a true asset that can assist librarians.

What should I do to optimize my work?
DARA - Data Analysis Recommendation Assistant

RESOURCES MANAGEMENT RECOMMENDATIONS

FULFILLMENT RECOMMENDATIONS

ACQUISITION RECOMMENDATIONS

CONFIGURATION RECOMMENDATIONS

TYPE

Behavior
Configuration
Usage
Statistics

LEVEL

User
Institution
Consortia
Community
From analysis to adaptive recommendations

WHAT CAN WE DO

WITH THE ANALYZED DATA?

Adaptive - Right time, right place, relevant to user profile and behavior
Adaptive recommendations

**CONFIGURATION RECOMMENDATIONS**

“I recommend that you create a SUSHI account based on your existing e-resource holdings and COUNTER file uploads”

**RESOURCE MANAGEMENT RECOMMENDATIONS**

“I recommend that you move these items from remote storage to the open stacks”

**FULFILLMENT RECOMMENDATIONS**

“I see that a faculty member has requested a book. She can get it faster via resource sharing. Would you like to go ahead...?”

**ACQUISITION RECOMMENDATIONS**

“I see that you have title with high demand, you should consider purchasing additional copies or on-line access”
From Recommendations to Smart Actions

ANALYZE → RECOMMEND → TAKE ACTION
DARA - Data Analysis Recommendation Assistant

DEMO
We recommend SUSHI harvesting with Cambridge University Press instead of manual file uploads. Other institutions successfully harvested usage data from this vendor.
<table>
<thead>
<tr>
<th>File Name</th>
<th>Vendor</th>
<th>SUSHI Account</th>
<th>Upload Date</th>
<th>Uploading User</th>
<th>Subscriber</th>
<th>Status</th>
<th>Report Type</th>
<th>Data Start Date</th>
<th>Data End Date</th>
<th>Vendor URL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cambridge Core JR1a Rd 2017.xlsx</td>
<td>Cambridge</td>
<td>-</td>
<td>22 Feb 2018 09:44:04</td>
<td>exImpl</td>
<td>Alma University</td>
<td>Fully processed</td>
<td>JR1a</td>
<td>Jan 2017</td>
<td>Dec 2017</td>
<td>-</td>
</tr>
</tbody>
</table>
SUSHI Account: Cambridge University Press
Vendor URL: http://sushi.cambridge.org/GetReport
Contact Information: http://www.cambridge.org
Status: Active
Subscriber: Alma University
Future Recommendations
Request cannot be fulfilled -> create resource sharing request

1. Create a Resource Sharing request for a pending patron request on "Harry Potter and the philosopher's stone"

   **Type:** Resource Sharing for pending patron request

   - There is a patron physical request waiting in the queue. It cannot be fulfilled now.
   - I see that one of your resource sharing partners has this title available.

   - I recommend creating a Resource Sharing request for this patron, to allow sooner availability of the requested item.

   **Created on:** 2019-02-14  
   **Updated on:** 2019-02-14  
   **Updated by:** System  
   **Notes:** 0  
   **Attachments:** 0

- There is a patron physical request waiting in the queue. It cannot be fulfilled now.
- I see that one of your resource sharing partners has this title available.

- I recommend creating a Resource Sharing request for this patron, to allow sooner availability of the requested item.
Enriching a record based on community insights
LDR 01775nam#2200397#i#4500
020 $a 1-4875-9542-5
050 4 $a DK274
245

Insights from the community

Class Number
DK274
# institutions 522 89%

Class Number
JN6511
# institutions 53 11%

[Emma]
Our man in Moscow (994340000000204482)

LDR 01775nam#a200397#

020 $a1-48759542-5

050 4 $aDK274

245 $aOur man in Moscow : $bb a diplomat's reflections on the Soviet Union / $bc Robert A.D. Ford.
1. **Our man in Moscow**  
By Ford, R. A. D.  
(Book Toronto, [Ontario]; University of Toronto Press, 1989.)  
Cataloging Institution: preferred institution 1  
Subjects: History, Russian World, World history...  
Other System Number: (OCoLC)387805, (OCoLC)989939884, (OCoLC)989934300

2. **Our man in Moscow**  
By Ford, R. A. D.  
(Book Toronto, [Ontario]; University of Toronto Press, 1989.)  
Cataloging Institution: preferred institution 2  
Subjects: History, World War, 1939-1945—United States  
Other System Number: (OCoLC)10338802, (OCoLC)1023003859, (OCoLC)731169518

3. **Our man in Moscow**  
By Ford, R. A. D.  
(Book Toronto, [Ontario]; University of Toronto Press, 1989.)  
Cataloging Institution: preferred institution 3  
Subjects: History, Russian World, World history...  
Other System Number: (OCoLC)31658051, (OCoLC)891308142, (OCoLC)829225696
Roadmap

March 2019
SUSHI recommendations

July 2019
E-Collection Portfolio recommendations
New order API options

September 2019
High demand items recommendations

Q4 2019
Cataloging related recommendations
### Analyzing:
- Behavior
- Needs
- Usage
- Statistics
- Data

### Recommendation Types:
- Metadata recommendations
- Fulfillment recommendations
- Resource management recommendations
- Acquisition recommendations
- Configuration recommendations

### Action Types:
- Manual action
- Collaborative action

### Leveraging:
- Big data
- Analytics
- Wisdom of the Crowd and persona based personalization
- Collaborative tools
THANK YOU!