



**MegadataWeb**  
Unprecedented simplicity and performance

Advanced Web Technology  
for Artificial Intelligence  
Big Data Management, Analysis  
and Knowledge Harvesting

**George Toms, Ph.D.**  
**President & CTO**

# Problem

**Data** is doubling in size every six months. It is currently being stored on clouds and processed on super computers with burdensome resources (RAM memory, storage, and processors). On the Web AI now we have only few choices: pagination, “Load more” button, infinite scrolling, Server-side row model, and virtual scroll!

Microsoft Excel Online (on desktop)



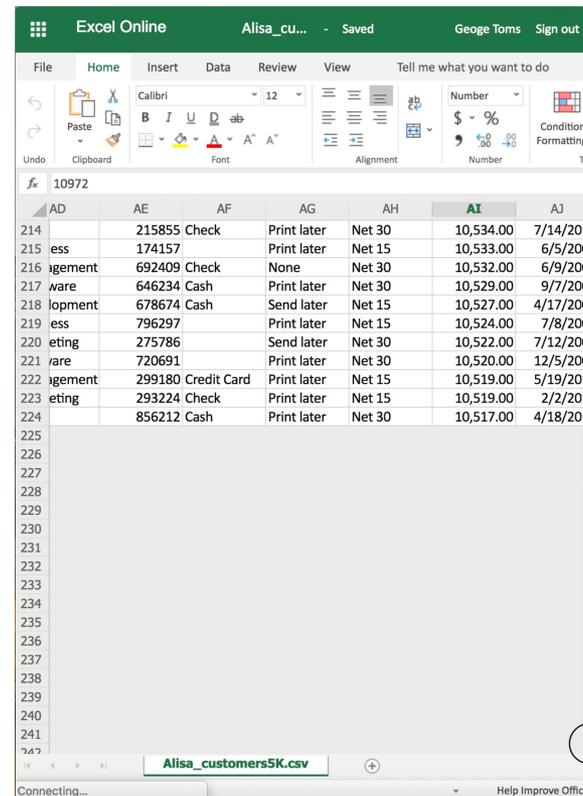
Showing 981-1000 of 15,179 results



Page 20 of about 136,000,000 results (1.00 seconds)



Page 21 of about 209 results (1.21 seconds)



# Solution

We invented and fully implemented new Web technology that allows us to create AI applications to harvest knowledge from big data on a laptop, tablet, or phone inside a Browser.

Alisa\_customers\_1M 

FIRST NAME	MIDDLE NAME	LAST NAME
Eric	Martinez	Patterson
Melissa	Taylor	Thompson
Catherine	Smith	Long
Dennis	Gonzalez	Miller
Walter	Young	Peterson
Joseph	Lopez	Gray
Nancy	Jackson	Griffin
David	Miller	Campbell
David	Jones	Cook
Paul	Davis	Adams
Carol	Mitchell	Price
Angela	Gonzalez	Coleman
Angela	Gonzalez	Coleman
Steven	Nelson	Thomas

1000000 of 1,000,000 Find value

Match Case Replace Replace value

First Name: Equal Steven

Megadata Web  
(iPhone 6 Plus)

Alisa\_customers\_1M 

FIRST NAME	MIDDLE NAME	LAST NAME	SUFFIX	COMPANY
David	Jones	Cook		Centennial Bank
Paul	Davis	Adams		Standard Bank
Carol	Mitchell	Price		Bank of Amador
Angela	Gonzalez	Coleman		First Counties Bank
Angela	Gonzalez	Coleman		First Counties Bank
Steven	Nelson	Thomas		Silvergate Bank

1000000 of 1,000,000 Find value Match Case Replace Replace value

First Name: Equal Steven

All AI and Web applications which process data can be benefited from Megadata Web in many directions, including:

1. Significantly Greater Processing Speed
2. Ability to Process Large Volumes of Data
3. Off-line Data Processing Capability
4. Minimized Bandwidth Usage
5. Reduced Memory Requirements
6. Compact Data Formats
7. Advanced Data Processing Algorithms
8. Quantum Leap Screen Rendering Performance
9. Support of Responsive Design Objectives by Placing All Data and Controls “above the fold”
10. Advanced “toolkit” of Features:
  - Navigation, scrolling
  - Sorting, searching, filtering
  - Totaling
  - Reporting
  - Exporting
  - Linking, mapping, e-mailing
  - Editing, replacing, adding, deleting
  - Undo, start over
  - Save, save all
  - Drag & drop
  - Cell & Table customization
  - Hierarchical column grouping
  - WYSIWYG Editor

# Target Clients



- All corporations for AI business analytics
- All major high-tech companies (Microsoft, Apple, Google, etc.)
- Banking, financial, and bookkeeping applications
- Credit card companies
- Internet stores
- Biotech industry for DNA/RNA processing
- IoT Industries: agriculture, defense, infrastructure, insurance, logistics, manufacturing, mining, retail, transportation, utilities...
- Healthcare, telecom, government, oil and gas, education, and life sciences
- Software for knowledge workers – analyst, engineers, scientist, planners, managers, salespeople, researchers, teachers, students, etc.

# Proof of Concept



Based on our technology, we have created the Web system **Alisa** for visualization and analysis of big (up to **16,000,000** records) data tables. Compare this to Microsoft Excel which processes a maximum of only **1,048,576** records.

Aggregate Generator

Use	Dimension	Agg Type	Buckets	Time Case	MIN	MAX	Bucket Name	End	Use	Measure	Statistics
<input checked="" type="checkbox"/>	RAM (Gb)	Slice							<input type="checkbox"/>	Rolling	<input checked="" type="checkbox"/> SUM
<input type="checkbox"/>	H Drive								<input checked="" type="checkbox"/>	Price	<input type="checkbox"/> AVG
<input type="checkbox"/>	Speed								<input checked="" type="checkbox"/>	Save	<input type="checkbox"/> MIN
<input type="checkbox"/>	Display								<input type="checkbox"/>	RAM (Gb)	<input type="checkbox"/> MAX

5 of 8 [up] [down]

#	Product	RAM (Gb)	SUM Price	SUM Save	COUNT
1	Acer	1	385,537,025.25	38,656,559.10	257,310
2	Acer	2	780,583,011.90	77,957,030.55	520,140
3	Acer	4	796,154,692.15	79,541,598.45	530,160
4	Acer	8	780,262,329.90	79,239,047.10	529,215
			23,582,780,488.95	2,358,463,395.15	15,728,625

1 of 42 Find Match Case [filters]

Product: Equal Acer [search]

### SUM Price by Product/RAM (Gb)

Brand	RAM (Gb)	SUM Price
Toshiba	16	772756982.55
Toshiba	8	786890912.55
Toshiba	4	789438149.25
Toshiba	2	784542531
Acer	16	795154692.15
Acer	8	789262329.9
Acer	4	787190229
Acer	2	391032982.2
Apple	16	402584405.7
Apple	8	387954282.75
Apple	4	393954667.05
Apple	2	391100381.55
ASUS	16	402888217.05
ASUS	8	795982864.35
ASUS	4	788800117.65
ASUS	2	780352899.9
Dell	16	776744467.35
Dell	8	399124008.3
Dell	4	398301976.2
Dell	2	392580240.9
HP	16	798705079.05
HP	8	794325462.45
HP	4	794634885.15
HP	2	778963494.6
Lenovo	16	399992910.3
Lenovo	8	393362953.65

# Proof of Concept (continue)



The superior processing capabilities of Megadata Web are evident in the following table, reflecting Megadata Web benchmarks compared, purely for context, to those same specific features in Microsoft’s Excel running on a laptop with 16GB of RAM:

Command	Excel 1M	Megadata Web 1M	Difference	Megadata Web 15M
Number of rows	1,048,576	1,048,576		15,728,640
Open file	48 sec	26 sec	> 1.8x	106 sec
Scrolling horizontally	Fast	Fast	No diff.	Fast
Scrolling vertically	Fast	Fast	No diff.	Fast
Sorting	17 sec	< 1.5 sec	>11x	< 15 sec
Reverse Sorting	11 sec	< 0.05 sec	> 220x	< 0.1 sec
Undo	10 sec	< 0.025 sec	> 400x	< 0.06 sec

# Competitive Advantages



## 1<sup>st</sup> TO MARKET

In some cases, we don't have any competitors at all because other current Web technologies cannot begin to handle processing that much data.

## SIMPLICITY

An advanced data processing engine was created with an emphasis on simplicity, usability, performance, and maximum functionality without the problems inherent with other solutions.

## PERFORMANCE

Dramatic increase, by up to 1,000 times, the amount of data/information that can be delivered in just a single web page and process it much faster than any other competitor on the market today.

## SCALABILITY

Distributed computing - former server-side SQL tasks, like data sorting, indexing, and reporting, are now accomplished more efficiently on the end-user's browser-equipped PC, Mac, phone, iPad, or tablet.

## BANDWIDTH

Reduces, by up to 98 percent the redundant and unnecessary network traffic associated with current database querying methods. This translates to increased network capacity for future expansion and lower maintenance expenses.

## FLEXIBILITY

Megadata Web enables you to create portable, one page business applications with Web simplicity, desktop performance, and secure offline data processing based on the **user's needs** – not the application's limitations.



Fusion Tables is a Web service provided by Google for data management. The website launched in June 2009. Even now Fusion Tables have pagination on every Web table:



Desktop application Microsoft Excel is a spreadsheet that processes a maximum of only 1,048,576 records.



Compare these two existing products to our Web system Alisa for visualization and analysis of big data tables (up to 16,000,000 records on a laptop and up to 32,000,000 records on a desktop).

Megadata Web has its own technology platform

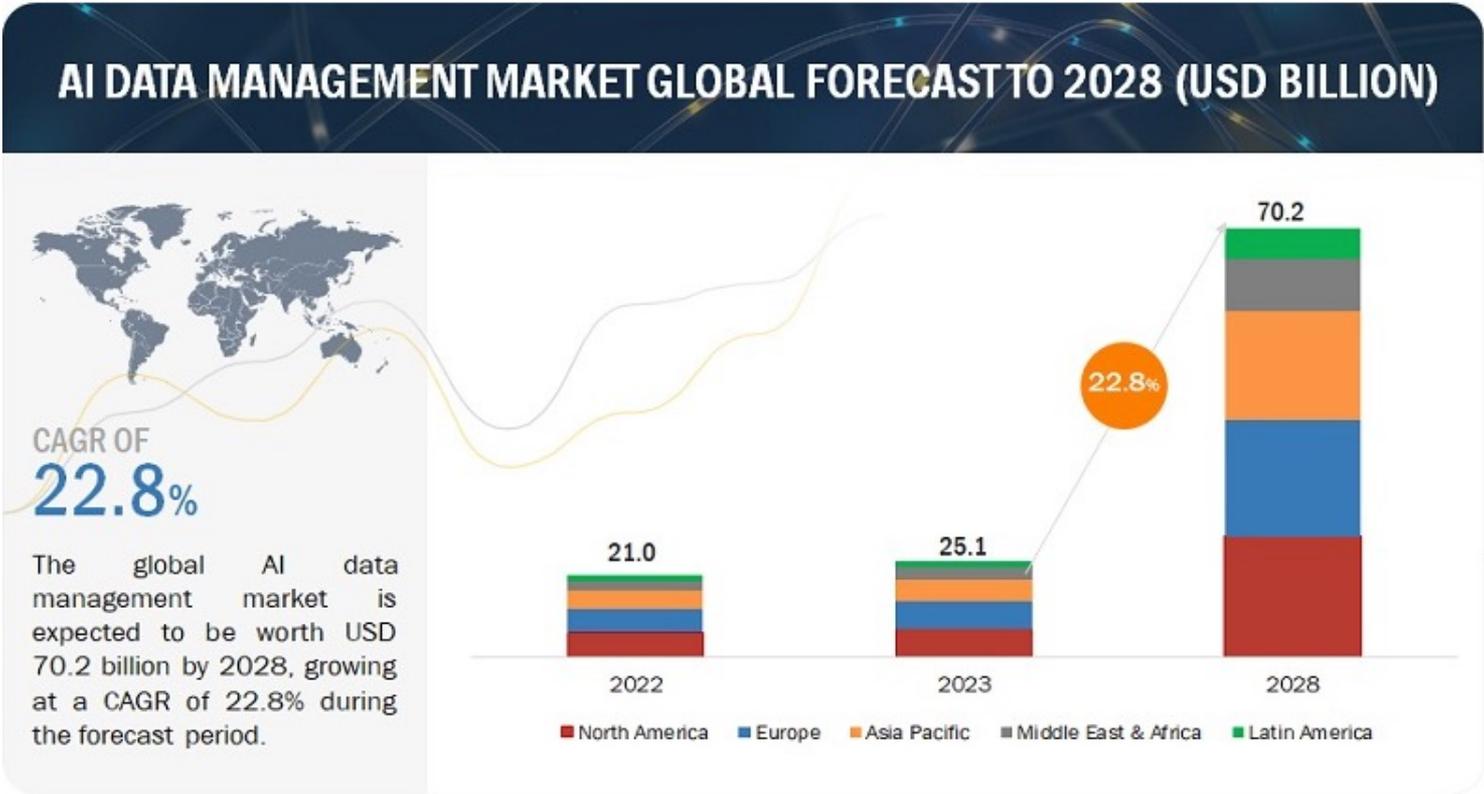
**“George Toms JavaScript (Toms JS)”**,

developed over the last 23 years, and is backed by following intellectual property copyrights:

- Copyright TXu001015218 / Sep 25, 2001
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The market for AI data management is estimated to grow from USD 25.1 billion in 2023 to USD 70.2 billion by 2028, at a CAGR of 22.8% during the forecast period.

Source: [Artificial Intelligence \(AI\) Market Research](#) Reports & Consulting



**George M. Toms, Ph.D.**

*President and Chief Technology Officer*

Dr. Toms is an expert in distributed Web client (Browser) off-line data processing, Rich Internet Applications, software integration and internationalization, algorithm optimization, mathematical logic, parallel Boolean data (vectors and matrices) computing, data sorting and searching, text parsing and processing, custom database optimization, and application acceleration.

**Nikolai N. Pepik**

*Chief Executive Officer*

Mr. Pepik has experience in working with international businesses in both the Russian and American markets which has given him the ability to manage and lead successful international companies.

# Potential Acquisitors





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