Aiaioo Labs

Aiaioo Labs is a research lab doing work on artificial intelligence (AI), machine learning (ML) and natural language processing (NLP).

Older research efforts in AI focused on solving difficult problems, like building robots. But now, research in AI focuses on very practical problems, like recommending products to customers, helping organize the schedules of employees, and responding to customers. We are mainly interested in practical work in AI that can make our lives easier and make businesses more productive and competitive.

We develop technologies for sales, customer service, recommending products, detecting fraud, creating better user interfaces, developing better language processing tools, scheduling and managing employees and listening to and analyzing social media conversations.

Past projects

Aiaioo Labs was founded in 2009. We have a number of projects to our credit. Here are a few of them.

a) OCR output enhancer for Read-Ink

Read-Ink was a startup founded by Dr. Thomas Binford of Stanford University.   Aiaioo Labs was contracted to provide technology to correct and improve the output of the OCR system.

b) WorldJumper Localization

One of the projects by Aiaioo Labs involved helping WorldJumper.com (a startup funded by the Waseda University, Tokyo incubator program) to develop a website localization product that could handle translation of customer inquiries and replies by customer service between Japanese, Chinese and English. We also helped WorldJumper file for a patent on the technology.
http://patentsobserver.com/public/search/show?applicants=YARAKU%20INC&searchString=2013150883

c) Intelligent Menu for Restaurants

Aiaioo Labs collaborated with Ancient Future to develop an intelligent menu for IDSNext, the largest hotel management software vendor in India.   Here are some screenshots of the product (product concept and design by Ancient Future, AI technology and software developed by Aiaioo Labs). The intelligent menu can learn customer preferences and recommend food items to its users.

d) Fraud Detection

Aiaioo Labs helped develop a solution for fraud detection in telecom networks for a technology startup founded by senior executives from what used to be Tandem Computers.

Technologies and Products Showcase

This section lists various technologies and products that we have developed over the years.

This includes our research work as well as our products.

1) **Natural Language Programming** (Vaklipi)

Children who cannot read and write English have difficulty learning computer programming in school because there are no computer programming languages for non-European languages.

In our first research project, we attempted to develop an intelligent programming language that can understand natural languages like Japanese, German, English, Hindi and Chinese.

Using this technology, children will be able to program a computer simply by typing in instructions to a computer in their own language.

You can see a demonstration of the system in this video: http://www.aiaioo.com/cms

A research paper on the technology was presented at the IJCNLP conference in Chiang Mai in 2011.

http://www.aiaioo.com/publications/ai-smart-language-ijcnlp-2011.pdf

2) **Intention Analysis**

Intention analysis is a new technology for analyzing communications on twitter and facebook.

A research paper on the technology was published in 2012 at the Coling conference.

http://www.aiaioo.com/publications/coling2012.pdf

The following whitepaper tells you how it can be used for sales

http://www.aiaioo.com/whitepapers/intention_analysis_use_cases.pdf

The following whitepaper tells you how it can be used for customer service

http://www.aiaioo.com/whitepapers/understanding_customer_calls.pdf

We have also developed a miniature version of the technology that can be used in mobile phones (to provide intelligent help to mobile phone users). The uses of the miniature version are described below.

http://aiaioo.wordpress.com/2012/01/23/from-communication-devices-to-personal-assistants/

Our intention analysis products are now being used by customers in Israel, USA and South America.

3) **Selasdia**

Selasdia is an intelligent sales assistant. It is a product that can automatically find leads (potential customers) from social media. More details are available at http://www.selasdia.com.

You can see a screenshot of the product below:
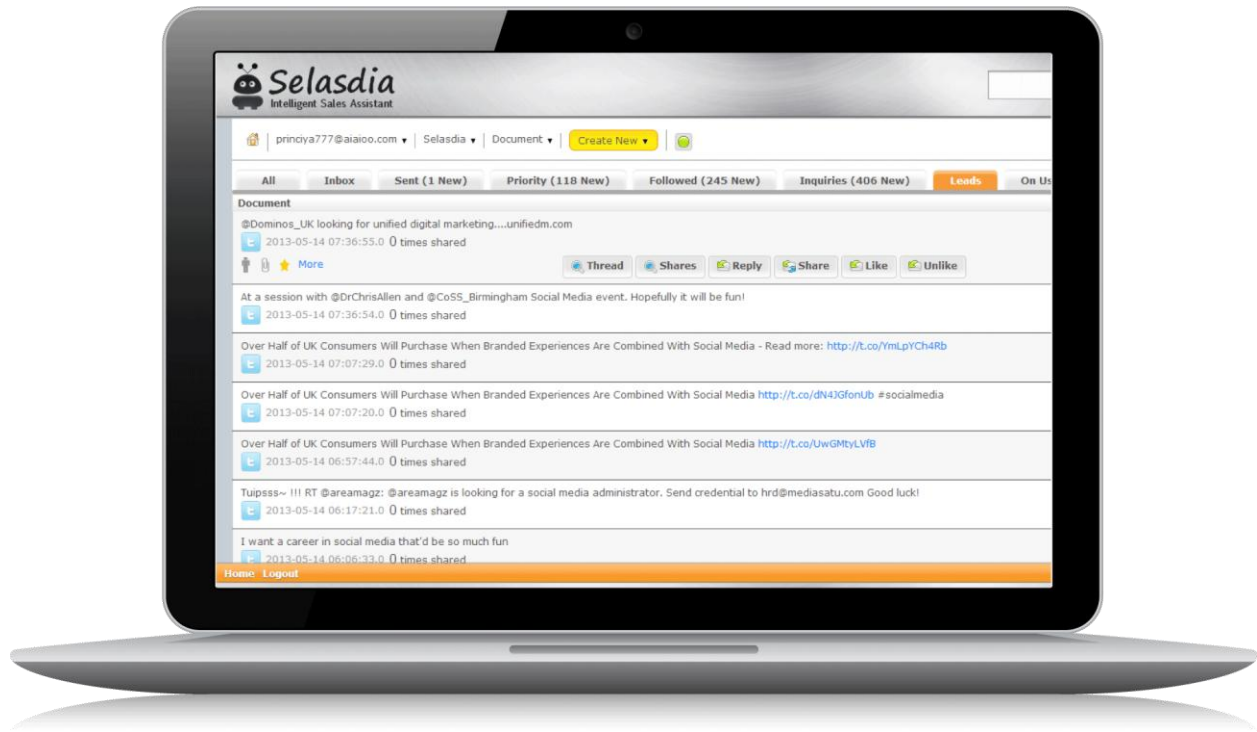
Articles

We have written a number of articles on AI, ML and social science. Here are some of our articles:

1. Using Algorithms to Solve the Problem of Poverty

2 Method for Moving an Ambulance Through Crowded Traffic

3. Using Algorithms for Security to Identify Bombers (the articles are in our blog aiaioo.wordpress.com)

How to Contact Us

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