Aiaioo Labs API Users' Guide for Integrators

Getting Started

We provide a free Java API that allows users to access **intention analysis**, **sentiment analysis** and **event analysis** (still incomplete) engines on the AIAIOO Labs text analytics server.

You can also access these services using our REST web-services.

Step 1: Setup of Infrastructure by Aiaioo Labs

You have received an **API Key** of the form:

**yzerweasVx7p\_ikjwerw\_kerwewrao5s**

Please make a note of the **API Key**.

We have set up a server for you in **your preferred location** of **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**.

Your **Server** is: **\_\_\_\_\_\_\_\_\_\_\_\_\_**

Your helpful Aiaioo Labs contact: **Cohan Sujay Carlos** (cohan@aiaioo.com, +91-77605-80015)

Step 2: Free Java Library for Integrators

**Unzip** the Java Library (**AiaiooAPI.zip**) that has been sent to you along with your introductory email.

This API has been adapted just for you. It already uses your **API Key** and is pointed at your **Server**.

Aiaioo Labs Java Library Version: **1.0.15**

Aiaioo Labs API Version: **1**

The library comes with source code.

There is also an accompanying jar file that you can use instead – aiaioo\_api.jar

The source code is an Eclipse project and will compile automatically when imported into Eclipse.

Step 3: Accessing the API using the Java Library

**com.aiaioo.api.VakIntentClient** is the Java class for **Intention Analysis**.

**com.aiaioo.api.VakSentClient** is the Java class for **Sentiment Analysis**.

**com.aiaioo.api.VakEventClient** is the Java class for **Event Analysis**.

How to run your data through the client:

Add the text to be analyzed to a String array:

 // A set of documents can be provided as an array of strings.

 ArrayList<String> documents = **new** ArrayList<String>();

 documents.add("For sale: a new Gibson electric with amplifier.");

 documents.add("The Nokia 600 is much better than the older N72.");

Call the API and retrieve the results of the intention analysis like this:

ArrayList<Intention> a = **new** **VakIntentClient**().**getIntentions**(documents);

If you want to perform intention analysis for a brand, product or industry, pass the brand’s name as the second parameter:

ArrayList<Intention> a **=** client.**getIntentionsForObject**(documents, "Nokia");

You can also pass multiple parameters, for example:

sentiments = client.**getSentimentsForEntity**(documents, "**car,Apple,Toyota**");

There are working examples in the **VakIntentClient**, **VakSentClient** and **VakEventClient** classes.

The source code will be found in the **com.aiaioo.api** package in **AiaiooAPI.zip**.

Step 3 (Alternative): Accessing the API using the REST web-services

If you are unable to use the Java Library, you may still access the APIs as web services.

The locations of the web services are:

http://<server\_location>/apis/vaksent/

http:// <server\_location>/apis/vakintent/

http:// <server\_location>/apis/vakevent/

The REST APIs take the following parameters:

1. key (your **API Key**)
2. text (the document to be analysed)
3. object (the entity to perform the analysis for – only useful for intention analysis)

Examples:

http:// <server\_location>/apis/vaksent/?**key**=<your\_key>&**text** =toyota+is+good

Returns positive

http:// <server\_location>/apis/vaksent/?**key**=<your\_key>&**text**=toyota+is+good&**object**=honda

Returns neutral

http:// <server\_location>/apis/vaksent/?**key**=<your\_key> &**text**=toyota+is+good&**object**=toyota

Returns positive

Alert: Using the **object** parameter with sentiment is not recommended, because it lowers the accuracy.

The other APIs can be similarly used, for example the intent analysis API:

http:// <server\_location>/apis/vakintent/?**key**=<your\_key>&**text** =I+want+to+buy+a+toyota

Returns purchase

http:// <server\_location>/apis/vakintent/?**key**=<your\_key>&**text** =I+want +a+toyota&**object**=honda

Returns other

http:// <server\_location>/apis/vakintent/?**key**=<your\_key>&**text** =I+want +a+toyota&**object**=toyota

Returns other

**Multiple documents** can be passed to the API using XML to wrap the documents as follows:

<d>

<s>This is document 1.</s>

<s>This is document 2.</s>

</d>

The results will now be broken into results per sentence and will be in the same order.

This method is used to send batches of text for analysis (and consequently save round-trip time).

Example:

http:// <server\_location>/apis/vaksent/?**key**=<your\_key>&**text** =<d><s>toyota+is+good</s><s>Hi</s></d>

Returns positive

**Multiple keywords** can be passed to the object parameter by separating them with commas.

Example:

http:// <server\_location>/apis/vaksent/?**key**=<your\_key>&**text** =<d><s>toyota+is+good</s><s>Hi</s></d>&**object**=honda,toyota

Returns positive

We are constantly looking to improve our products. If you have any questions or need clarifications, or have noticed anything that we can improve, please email the contact – that is me **Cohan Carlos** - at **cohan@aiaioo.com** or call me at **+91-77605-80015**. I will be very happy to hear from you at any time.

OUR GUARANTEE:

At Aiaioo Labs [http://www.aiaioo.com](http://www.aiaioo.com/), sales is service. So if you are less than delighted with anything for any reason whatsoever, let our sales team know right away, and we will make it right for you. We can be reached at aiaioo.labs (Skype) (or +91-77605-80015 or sales@aiaioo.com) 9 to 5 IST (GMT+5:30) (M-F).