



# Analytics

## IoT Analytics

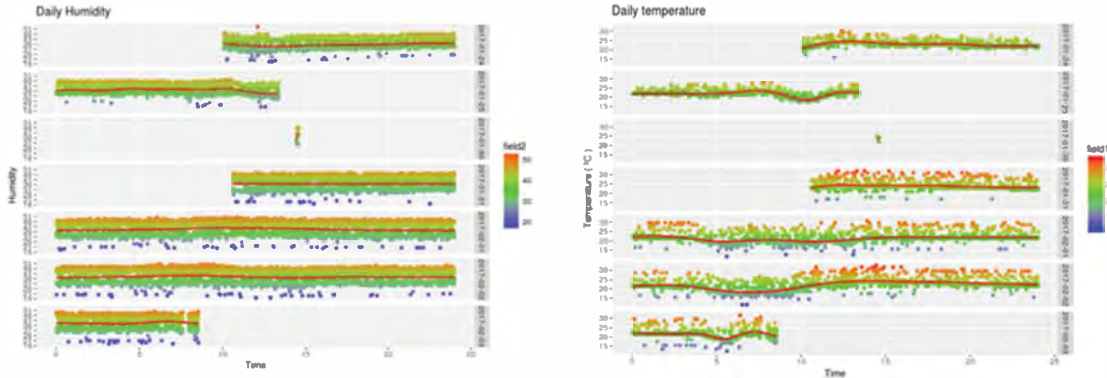
### Sample Application: Smart Lab/OEM Lab Temperature Monitoring:

- Takes the temperature and humidity data and plots it for various time frames across days
- Classifies the temperature/humidity into high, medium and low and plots the same.

### Applications:

#### Temperature Monitoring & Control

- Monitor the temperature and humidity of the lab such that it does not exceed a certain temperature/humidity range



## Engineering Analytics

### Sample Application: Router Congestion Insights:

- Takes an unstructured syslog file from a router, converts it into structured format
- From this structured data, derives patterns depicting the congestion aspects and renders the desired data for effective router design.

### Applications:

#### Capacity & Congestion optimization

- To identify the bottlenecks in the traffic flow from the routers
- Obtain insights such as number of link protections cleared, number of hop tree links

### Anomaly Detection

sidebar panel

Choose a file

Browse... Syslog\_engg.txt

Upload complete

Date range input: yyyy-mm-dd

2017-02-07 to 2017-02-08

Smart Introduction **Protection Syslog** Protection Syslog Cleared Syslog Unregister Syslog Backup

Show 25 entries Search

	V1	V2	V3	V4	V5	V6
Feb 7	16:15:24.623	KRAT[917]:	MAS-RESTORE	MSL_CONTENT_IPV4_HUD_PLUS	ptl_CONTENT_recv_ipv4_uc_add dnt PIT_CLIENT seq 252	IPC OK
Feb 7	16:15:24.624	KRAT[917]:	MAS-RESTORE	MSL_CONTENT_IPV4_HUD_REMOVE	ptl_CONTENT_recv_ipv4_uc_delete dnt PIT_CLIENT seq 253	IPC OK
Feb 7	16:15:24.626	KRAT[917]:	MAS-RESTORE	MSL_CONTENT_IPV4_HUD_PLUS	ptl_CONTENT_recv_ipv4_uc_add dnt PIT_CLIENT seq 254	IPC OK
Feb 7	16:15:24.627	KRAT[917]:	MAS-RESTORE	MSL_CONTENT_IPV4_HUD_REMOVE	ptl_CONTENT_recv_ipv4_uc_delete dnt PIT_CLIENT seq 255	IPC OK

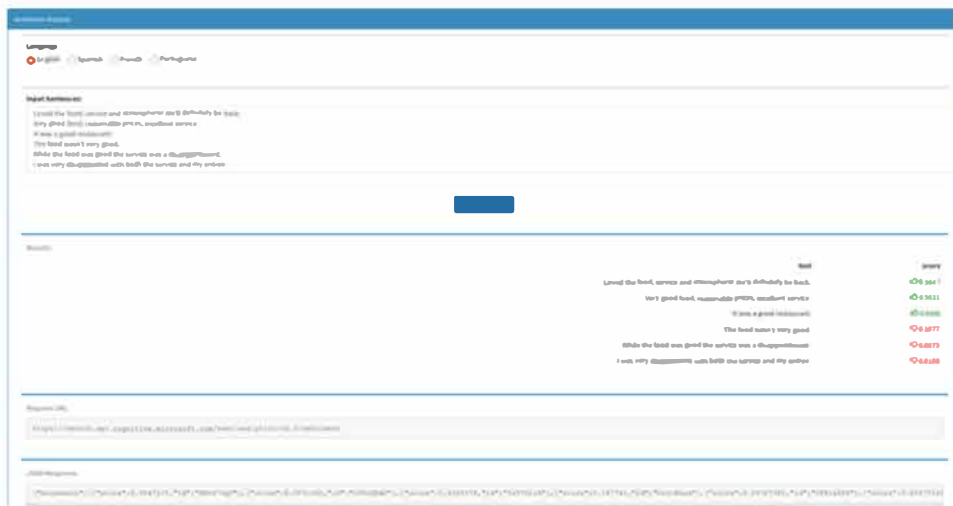
## CRM

### Sample Application 1: Sentiment Analysis:

- Inputs user text and identifies the sentiment across each of the sentence.
- It gives a score ranging from 0 to 1 and classifies it into positive, negative or neutral accordingly.
- It can process sentences in English, Spanish, French & Portuguese
- It gives a json response of the output

#### Applications:

- To identify the overall customer sentiments about the product
- Aggregate data from multiple data sources to give sentiments

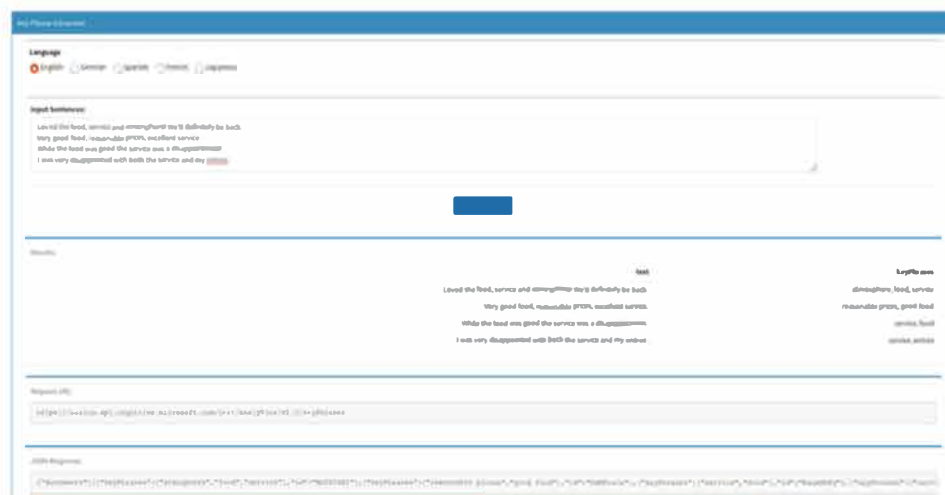


### Sample Application 2: Keyphrase Identification:

- Inputs user text and identifies the keyphrases in each sentence and lists them
- It gives a score ranging from 0 to 1 and classifies it into positive, negative or neutral accordingly
- It can process sentences in English, German, Spanish, French & Japanese
- It gives a json response of the output

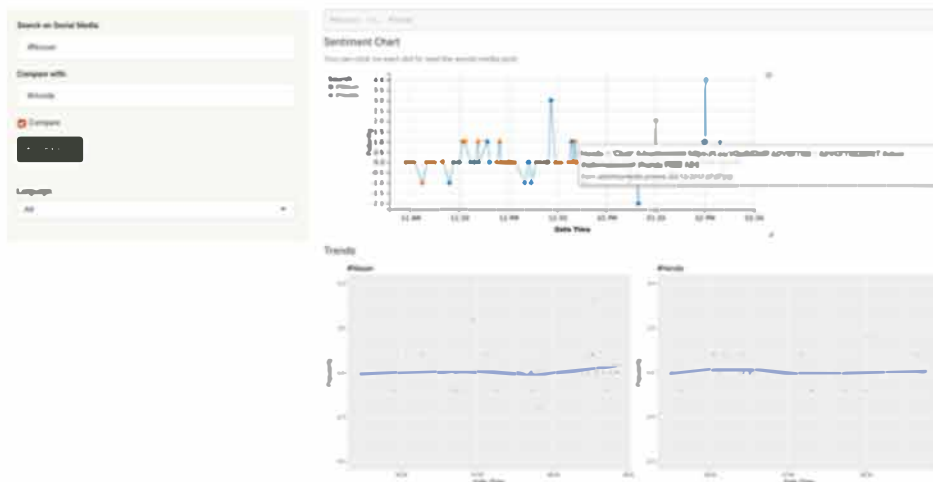
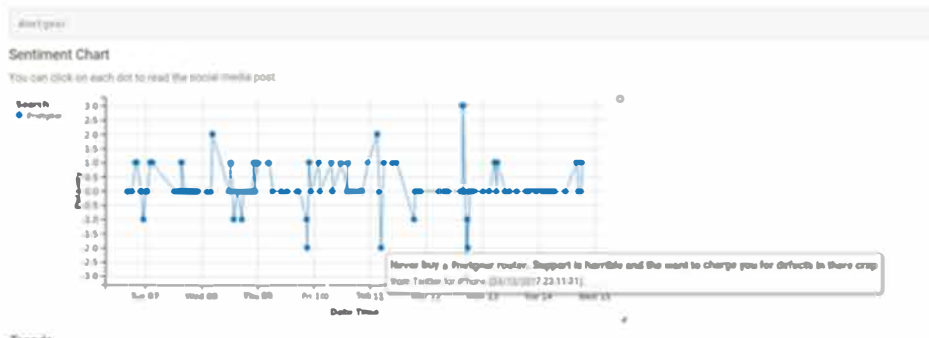
#### Applications:

- To identify the pain points & the power points of the customer
- We can integrate keyphrase identification with sentiment analysis to gain insights on how specific module of a product is being perceived by the customer



**Sample Application 3: Twitter Sentiment Analysis:**

- Input twitter hash to identify the sentiment about the topic.
- It gives a polarity graph for the tweets, where it allows you to read each specific tweet as well
- It gives you an option to compare two topics and gives the sentiment and popularity comparison between the topics
- Gives you statistics on which device was used to write the tweet



## Image Analytics

### Sample Application 1: Image Classifier:

- Allows the user to input an image file & identifies the objects that are there in the image
- It gives the Top-5 probable objects in the image

### Application:

- Defect Identification - Quality check to identify defects during the manufacturing of the product



### Sample Application 2: OCR - Image to text:

- Allows the user to input an image file & identifies the text in the image
- It gives an accuracy of 96% on documents
- It gives the extracted sentences as well as it gives the extracted text as sentences
- It also gives the wordcloud of the most prominent words in the text and also stop word option for wordcloud

### Application:

- Compliance Management Analysis

#### OCR Demo



**ADVERTISEMENT.**

This publication of the Works of JOHN KNOX, it is supposed, will extend to Five Volumes. It was thought advisable to commence the series with his History of the Reformation in Scotland, as the work of greatest importance. The next volume will thus contain the Third and Fourth Books which continue the History to the year 1564; at which period his historical labours may be considered to terminate. But the Fifth Book, forming a sequel to the History, and published under his name in 1644, will also be included. His Letters and Miscellaneous Writings will be arranged in the subsequent volumes, as nearly as possible in chronological order; each portion being introduced by a separate notice, respecting the manuscript or printed copies from which they have been taken.

It may perhaps be expected that a Life of the Author should have been prefixed to this volume. The Life of Knox, by DR. M'CRUX, is however a work so universally known, and of so much historical value, as to supersede any attempt that might be made for a detailed bio-

OCR Demo

Choose an image (max 5MB)

Max number words in cloud

100

Minimum word frequency in cloud

2

Remove stopwords in wordcloud

introduction Image & extracted text Extracted text as sentences wordcloud



OCR Demo

Choose an image (max 5MB)

Max number words in cloud

100

Minimum word frequency in cloud

2

Remove stopwords in wordcloud

introduction Image & extracted text Extracted text as sentences wordcloud

Show 25 entries

id	sentence	text
1	ADPLECTUM ADIVTY.	
2	This publication of the Works of Jose Knox, it is supposed, will extend to Five Volumes.	
3	It was thought advisable to commence the series with his History of the Reformation in Scotland, as the work of greatest importance.	
4	The next volume will thus contain the Third and Fourth Books which continue the History to the year 1564; at which period his historical labours may be considered to terminate.	
5	But the Fifth Book, forming a sequel to the History, and published under his name in 1644, will also be included.	
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7	The Life of Green by GH.	
8	Misc, is however 11 work so universally known, and of so much historical value, as to supersede any attempt that might be made for a detailed bio-	

Showing 1 to 8 of 8 entries

Sample Application 3: Product Realization Analytics:

- We have data on a manufacturing device over several years.
- We used this data to do forecasting on how it would be for the next year
- We take into consideration several parameters such as churn rate, temperature, etc.
- We optimize the process and address anomalies

Application:

- Warranty Analytics
- Product Demand Analytics

