About RISKSIS



Al & Block-chain Partnership: Simmons

DWC

Deloitte.



Blockchain Eco-system: 10+ Banks, HKMA, Ship Owners, Charterers,Traders, Chambers, Inspection, Insurer, Customs ...

Official Big Data Partner: **cloudera**

Featured Client References:



RISKSIS TECHNOLOGY

- 🖌 Big Data
- ✓ Artificial Intelligence
- Block-chain





Big Data Client References (Last 3-years - in Big Data, AI, Blockchain etc)

Hong Kong Government

Smart Traffic – Predictive Analytics

Awarded 1st Big Data Analytic Pilot by OGIO

Objective:

- Predictive Analytics in Traffic Impact
- Real time Traffic Speed Prediction for Major Routes and Urban Roads
- Data Sources include historical speed data, rainfall data, news data, accident data, incidents data and many more.

Methodology:

Deep Learning - Big Data Artificial Intelligence



Financial Institutions - Banks

AI - Entity Recognition Engine (Paper-to-Electronic Module)

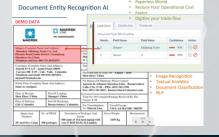
Birleti UNF / REALIZOFF REF/DELIAFIESI MEDICAL Office of the Government Chief Information Officer

Methodology:

Deep Learning - Big Data + Artificial Intelligence Objective:

- Big Variety of Document format cause rule-based OCR recognition difficult

- Al is used to OCR, recognize paper text and automate the data entry



HVAC & Building Industry / Government

AI – Building Energy Saving

Client:

- **HK Government Data Center in China PRC**
- **Buildings in China**
- Methodology:
- Reinforcement Learning





- **Objective:** Revenue growth of a client (Annual Revenue > \$50billion US)
- The work of Alan's team:
- Our team collects data from many touch-points of clients such as sales data, marketing, customer service data, phone call data, logistics delivery data, warehouse operation data, email data, social media and transaction data.
- Statistician analysed the business scenario and designed the customer strategy using algorithms We deployed Big Data machine learning to automate the business strategy

Achievement: Client successfully raise revenue objective with good satisfaction



Global Technology Group PHILIPS Smart Home Big Data Cloud on Interne Things / Consulting / Training

Objective:

Our hardware team has developed Smart Home solution controlling electrical appliances via ZigBee wireless technology to control, monitor and provide intelligence.

We have streamlined the data to our big data server farm to provide intelligence for energy saving, product propensity and predictions.

Achievement: One of our clients is a real-estate developer in ShangHai. More than 1000 Smart-Home sets are deployed



Global Network Security Group AI – Cyber-security NLP Project

Tertiary Education

Big Data High Diploma Course External Validator



Global Retailer





Objective:

Client Annual Revenue > \$5 billion) ; Upsell/Cross-sell the retailer's product in E-commerce and Brick-and-mortar. ; Provide predictive insights on suggesting product and items in online and offline shop. (Client Annual Revenue > \$5 billion) Offline-to-Online (O2O) retail customer upsell by using multi-touch-point data.

Algorithm Methodology:

Collaborative Filtering and Statistical Analysis

The work of Alan's team:

Project Manager and business consultant conduct business due diligence

Our statistician use Statistical Modules to analyze the business and fine tune the parameters on the prediction model by mathematics



Telecom Operators



Network Equipment Monitoring – Big Data on Telecom Sensors Network Our Client

Our client is a renowned MNC telecom in the region

Project Example

Telecom Equipment Tester: Our Proprietary hardware telecom equipment Mobile Application Front-end for Control: Technicians can use the mobile phone to remotely control and monitor the telecom equipment and infrastructure **Big Data Analytics**

Use Big Data Technologies for large scale data collection from remote equipment Use Classical machine learning algorithms for time series predictions



Warehouse & Industry Associations **Big Data & AI – Pose Recognition**



Semi-Government Research Group **Big Data & AI – Recruitment Trend on NLP** on Market information







Client Reference -

Al on Time Series

Hong Kong Government

Smart Traffic – Predictive Analytics

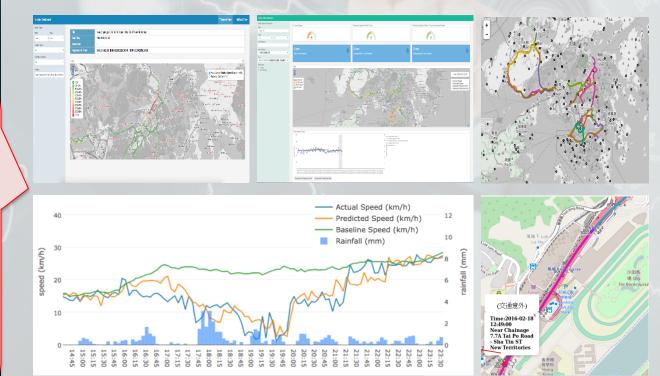


Objective:

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- Data Sources include historical speed data, rainfall data, news data, accident data, incidents data and many more.

Methodology:

Deep Learning – Big Data Artificial Intelligence



香港政府<mark>首個</mark> 智能城市AI 項目 (2015-2016)



Electrical & Mechanical Energy Saving



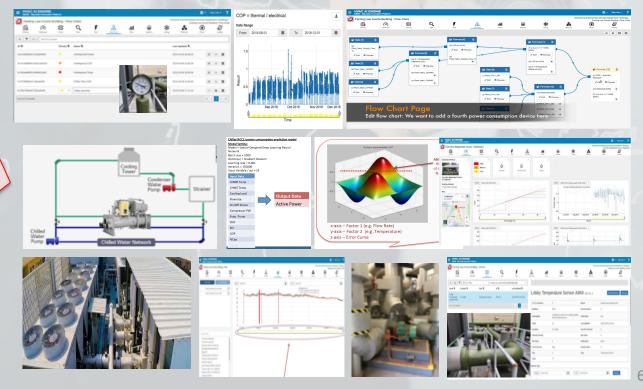
AI Energy Saving & Optimization – HVAC Chiller

Objective:

- Predictive Analytics in Energy Saving in Building Chiller System
- Data Collections from Building Sensors & External Data
- By suggesting different set-point settings of the system, back-test shows significant Energy Saving can be achieved

(Client: Government Clients – EMSD ; Some Commercial Clients – 40%) Methodology:

Deep Learning – Big Data Artificial Intelligence



香港政府<mark>首個</mark> 証明用AI 可以大量節能項目

(40%) (2018)

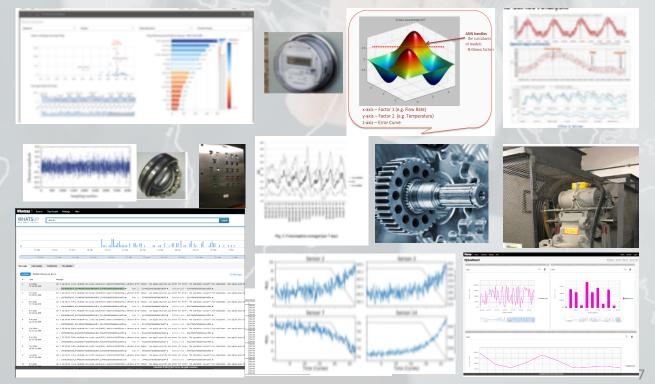
Motors & Mechanical - Preventive Maintenance

Objective:

- Predictive Analytics in Preventive Maintenance
- Data Collected from Mechanical Sensors such as Vibrations, Stress.
- By Analyzing time series, predict probability of Fault; root cause analysis; Prioritization of Maintenance Works; Preventive Maintenance

Methodology:

Deep Learning – Big Data Artificial Intelligence





AI – Customer Number Time Series Trend Prediction

Our clients cover more than 90% of daily flights in HK

Objective:

- Predictive Analytics in Customer Number & Trends
- Data Collected from Different Flights Records, Flights Configuration, Destination, Airlines, Holidays, Events, Economics etc.

Achievement / Business Impact:

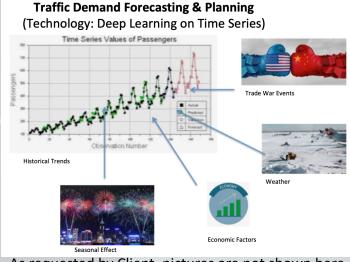
- Critical in Operation Team for resources planning
- Great Impact on the Profit / Loss of the Business in Control of Cost
- Important for the prevention of wastages of allocated resource

香港Airline用AI 作客乘客預測項目

準確度達99.7% (2018)

Methodology:

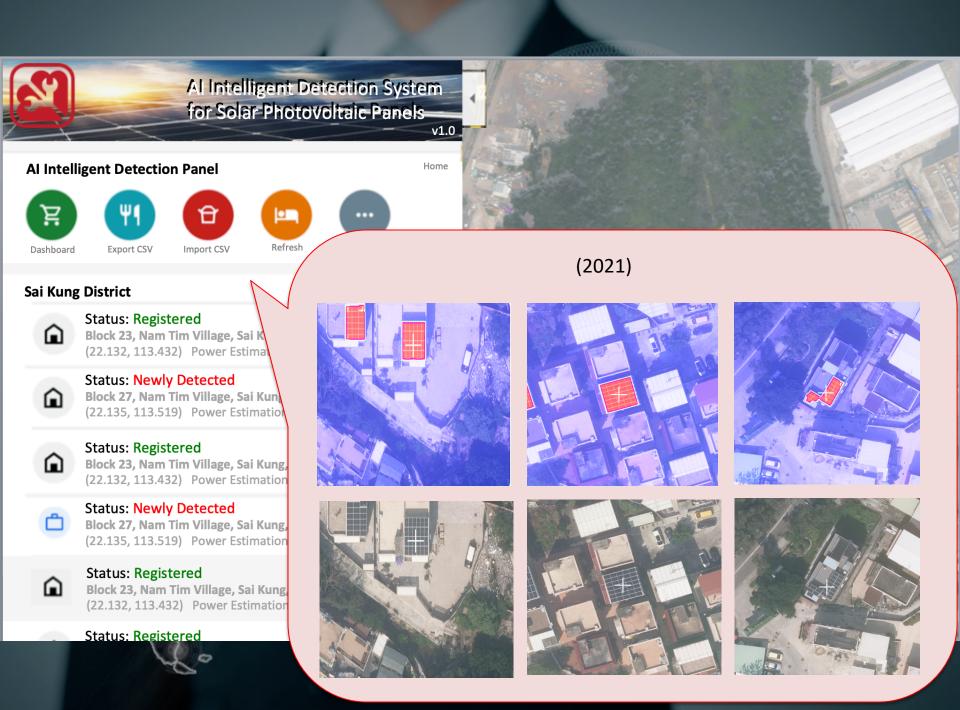
Deep Learning – Big Data Artificial Intelligence



As requested by Client, pictures are not shown here.

Client Reference -

Al on Video / Image



Selected Video Analytics Reference P.1

VA Activity Recognition for airline warehouse



VA Fever Detection for several government PSTS



VA for robotic Pick-and-Place for a China's manufacturer



VA Object Detection in HK Airport Multifunctional Robots



VA Traffic Objects Recognition for a government Project



VA Map Object Detection on Land Department Map

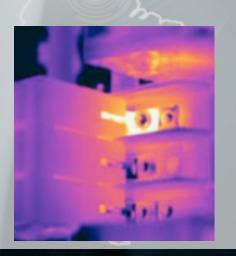


Selected Video Analytics Reference P.2

VA Passenger Detection (Pregnant & handicap)



VA Electrical Infrared Inspection using Drone in Building



VA Solar Panel Detection for Government Compliance



VA Retail Shelf Assortment Management Trial



VA Asset Fault Detection for Property Management



VA Document Image Data Retrieval for a French Bank



Selected Video Analytics Reference P.3

VA E-commerce Image Piracy Detection

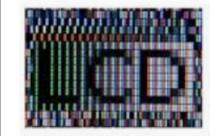


VA Figure Pose Detection for a HK Semi-Government Research Institute



VA Airline Meal Order OCR with Handwritten-digits

VA Retail Shelf Assortment Management Trial



VA Child Kidnap Prevention for Hospital





Patent AI Video Analytics on Fever and Object Detection

High Accuracy (2020-2021)

Hong Kong International Airport

AI – Video Analytics on Fever and Mask Detection

Our clients requires

Objective:

- Detect even when Hot Object Overlapped with Face
- Body Temperature Detection with Distance Calibration
- Temperature Estimation with Motion Compensation
- Run on Small and Low Power Hardware

Achievement / Business Impact:

- Essential in High Temperature Detection in Robot Fever Detection
- Deployment
- Co-Patent with Hong Kong International Airport

Methodology:

Deep Learning – Big Data Artificial Intelligence



Hang Kang International Airport

SYSTEM AND COMPUTING DEVICE FOR DETERMINING BODY TEMPERATURE OF A PERSON

BACKGROUND

In light of the Covid-19 pandemic which swept the world in 2020, restaurants, shops and offices are increasingly taking the temperature of customers and people entering their premises. Typically the temperature measurement is done manually by an employee or security guard with a thermometer and infra-red thermometers are especially convenient as they do not require body contact. In some cases an infra-red thermometer is placed on a stand near the entrance to a shop or restaurant, so that the temperature of people entering the shop can be easily monitored. The

10 application of such techniques to transport hubs, such as airports, is also of interest.

SUMMARY

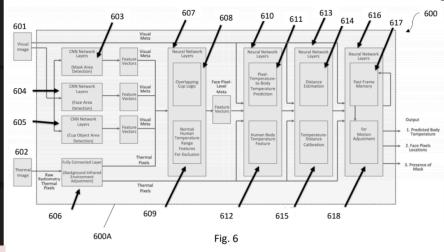




Fig. 3B

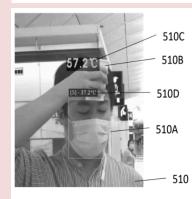


Fig. 5D

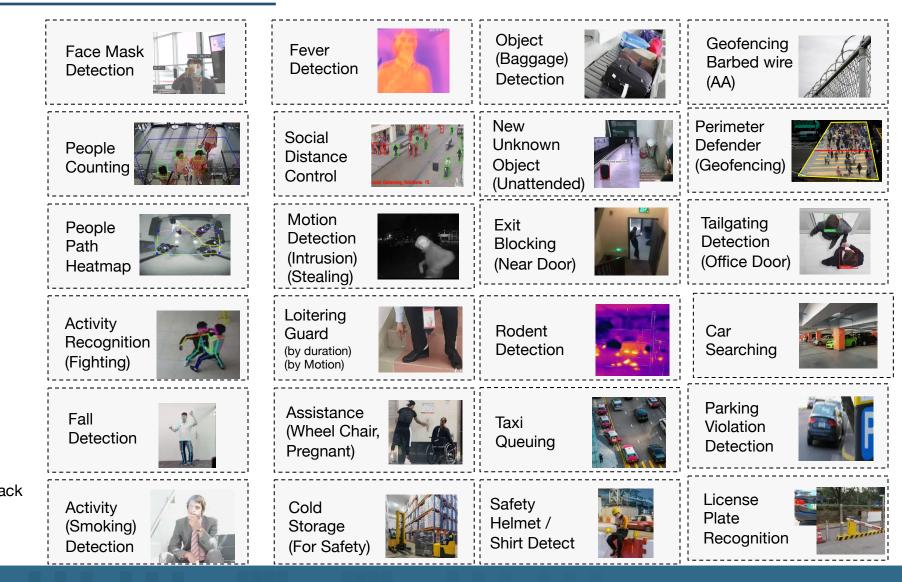




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AI Video Analytics

Shopping Mall & Building

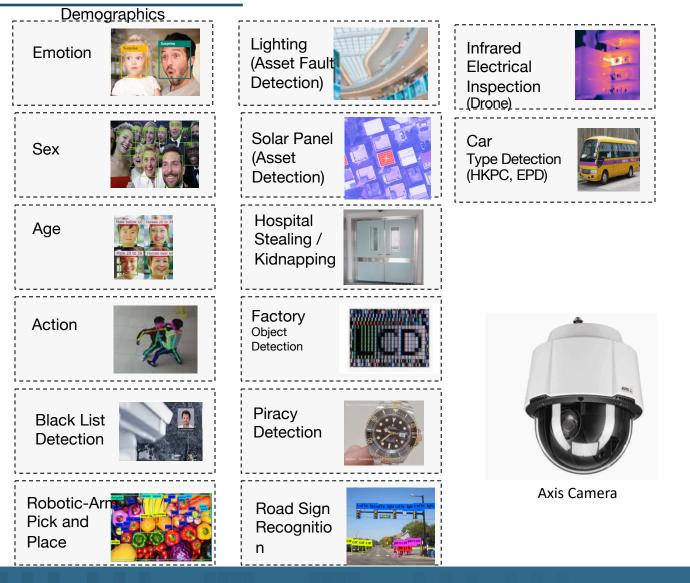


RISKSIS Your Trusted Partner

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AI Video Analytics

Shopping Mall & Building



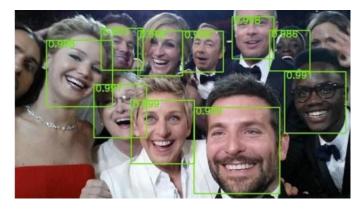


Axis Camera

RISKSIS Your Trusted Partner

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Al Video Analytics – Face Recognition



Face Detection & Recognition



Object detection at Carpark & Shopping Center





Activity Recognition

Emotion Estimation



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Client Reference -

Al on Knowledge Management

Railway & Government Regulator

AI – Semantic AI – Knowledge Management System

Methodology:

- Deep Learning Big Data + Artificial Intelligence
- Collect Sensor Data, Maintenance Data, Document Data (PDF, excel)
- AI in Predictive Maintenance and AI Prediction with Knowledge Graph

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Geneva Inventions Award

Sematic AI -Predictive Maintenance Models (2022)

Document Processing Automation

Financial Institutions

AI - Entity Recognition Engine (Paper-to-Electronic Module)

Methodology:

Deep Learning – Big Data + Artificial Intelligence Objective:

Document Entity Recognition Al

- Big Variety of Document format cause rule-based OCR recognition difficult
- AI is used to OCR, recognize paper text and automate the data entry

銀行業 文件自動化AI 項目

節省90%工作時間 (2015)

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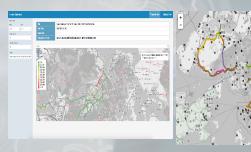




• Reduce Your Operational Cost

Selected NLP Reference P.1

Smart Traffic – Textual News Incident Retrieval for OGCIO, TD, HKO



AI NLP - Government Desk Research for Industry & Job Skill Big Data Analytic Platform

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Al NLP – Shipment Textual Data Retrieval & Revenue Analysis for Logistic



Al NLP - Telex Data Retrieval for Airline Industry



Document Classification For Banking Industry

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Textual Summarization NLP for Cyber-security Document

Understanding the Impact of China's Far-Reaching New Cybersecurity Law

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Selected NLP Reference P.2

AI NLP – Paperless OCR Conversion for a Global Bank

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AI NLP – Document Layout Classification in Trade Finance Documents for Banks

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AI NLP – Email Classification Telecom Customer Service with RPA and NLP

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Sentiment Analysis for Advertising with Social Media Data



Sentiment Analysis in Social Media Forum for a Retail Marketing Campaign Tracking Tool



Selected NLP Reference P.3

AI NLP – E-commerce Competitor's Product Analysis for a e-Retail client



AI NLP – Machine Log Data Analysis for Security and Compliance in Telecom Industry



AI NLP – Chatbot for a Insurance client

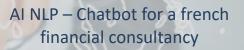


AI NLP – Tender Keyword Recognition for Cost Analysis for a Construction client



AI NLP - Q&A System for BOM Manufacturing in Plant







Client Reference -

Al on Customer Analytics

Global Retailer

Big Data Recommendation Engine and E-commerce

Objective:

- Client Annual Revenue > \$5 billion)
- Upsell/Cross-sell the retailer's product in E-commerce and Brick-and-mortar.
- Provide predictive insights on suggesting product and items in online and offline shop.
 (Client Annual Revenue > \$5 billion)
- Offline-to-Online (O2O) retail customer upsell by using multi-touch-point data.

Algorithm Methodology:

- Collaborative Filtering and Statistical Analysis

The work of Alan's team:

- Project Manager and business consultant conduct business due diligence
- Our statistician use Statistical Modules to analyze the business and fine tune the parameters on the prediction model by mathematics
- Our software developers develop Big data machine learning modules to run the analysis
- Our system architect provide service for data management and planning for integrating client's existing infrastructure
- We develop and automate using Big Data Technology
- Achievement: E-commerce revenue growth, O2O brick-and-mortar strategy insights











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Logistic Company

Big Data Customer Statistical Analytics: Revenue Growth Strategy and Retention Strategy Client: Global Logistics Client

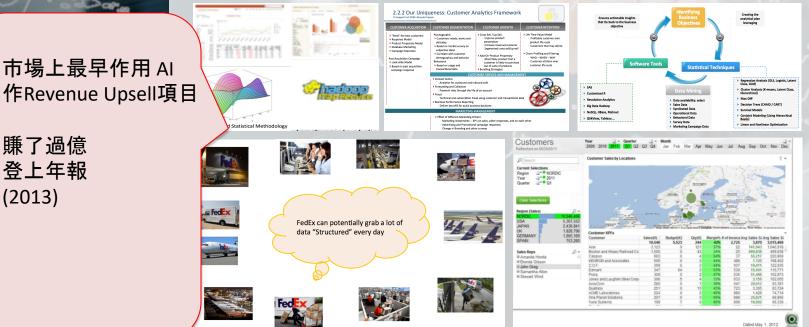


Objective:

Revenue growth of a client (Annual Revenue > \$50billion US)

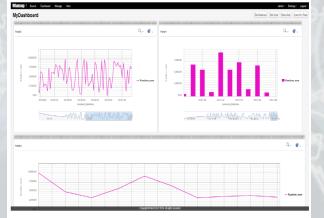
The work of Alan's team:

- Our team collects data from many touch-points of clients such as sales data, marketing, customer service data, phone call data, logistics delivery data, warehouse operation data, email data, social media and transaction data.
- Statistician analysed the business scenario and designed the customer strategy using algorithms
- We deployed Big Data machine learning to automate the business strategy **Achievement:** Client successfully raise revenue objective with good satisfaction



[Listed Telecom Clients] Network Equipment Monitoring – Big Data on Telecom Sensors Network









Smart Meter Numeric Data Log Dashboard

Our Client

Our client is a renowned MNC telecom in the region

Project Example

- Telecom Equipment Tester: Our Proprietary hardware telecom equipment
- Mobile Application Front-end for Control: Technicians can use the mobile phone to remotely control and monitor the telecom equipment and infrastructure

Big Data Analytics

- Use Big Data Technologies for large scale data collection from remote equipment and sensors.
 - Use Classical machine learning algorithms for time series predictions

Client Reference -

Al on Robotics / IoT / Sensors

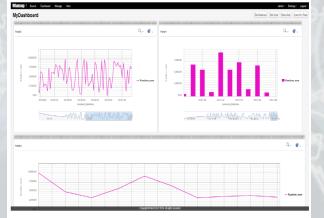
MOBILE FEVER SCREENING ROBOT

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RISKSIS ROBOTICS @2020

[Listed Telecom Clients] Network Equipment Monitoring – Big Data on Telecom Sensors Network









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Big Data Analytics

- Use Big Data Technologies for large scale data collection from remote equipment and sensors.
 - Use Classical machine learning algorithms for time series predictions

[Global Technology Clients] Smart Home Big Data Cloud on Internet of Things

PHILIPS

Objective:

Our hardware team has developed Smart Home solution controlling electrical appliances via ZigBee wireless technology to control, monitor and provide intelligence.

We have streamlined the data to our big data server farm to provide intelligence for energy saving, product propensity and predictions. **Achievement:** One of our clients is a real-estate developer in ShangHai. More than 1000 Smart-Home sets are deployed.



Client Reference -

AI on Audio and Sound

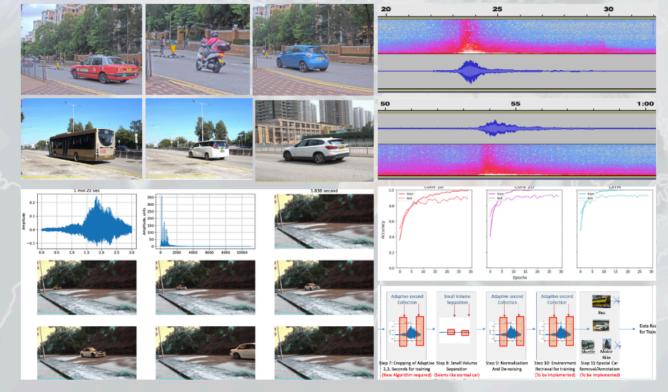
[Government & Regulator] Detecting Non-compliant Modified Noisy Car

Objective:

Use Deep Learning Technology to implement several AI algorithms to detect non-compliant modified noisy car on the road.

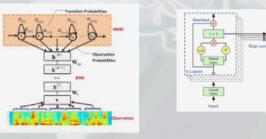
Achievement

Audio classification model achieves 9x% accuracies in various environmental conditions



1) Speech-To-Text Engine (Speech Recognition) Audio Recognition

This is our Product using AI CNN, ASR Models Methodology: Deep Learning Convolutional Neural network





2) Text-to-Speech Engine

Audio Generation

We provide **several** AUDIO consultancy solutions to Government on speech Solutions including robots and other systems





Client References

4) Audio Al - Liecti Onic Fault Detection in

Audio Fault Recognition

Methodology: AI Deep Learning





Sound-Device Manufacturing has quality problem (走音, 慢音) when having electronic soldering problem. Our AI installed in the "Test-Jag" machine for the Quality-Control Section of the Manufacturing. Sound clips shall be recorded for all the PCBs in the manufacturing. Different sound problems are detected.

For example, the test-jag has tested 100k+ McDonald's toy sound product.

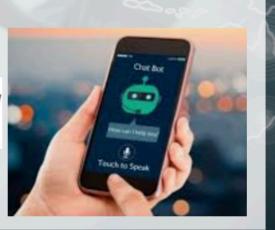
5) Voice Chatbot

Audio NLP – Intent Classification & Voice Generation Client:

We have provided Chatbot for many companies including ChinaLife Insurance, Chappuis, Quantex Consulting, ...

Audio NLP is one of the modules in our standard chatbot components. It provides TTS, STT, voice intent classification features







Client References

6) Customer Service Audio Logging

Speech Recognition in Telephone Call

Methodology: AI Deep Learning

Our client is a financial institutions. We helped them to recognize the "audio conv service telephone call.



7) Machine Motor Fault Detection – Audio Classification

Audio – Time Series Classification on Audio Sensor

Objective: Differentiate GOOD and BAD motor by using audio time series. Audio time series is recorded. AI classification models are developed to differentiate GOOD and BAD motor.





Client References

8) Plant "Pump" Energy Optimization

Speech Recognition in Telephone Call

Methodology: AI Deep Learning



"Aging electrical pump" usually generates add

The audio noises spectrum characterized the ENERGY-CONVERSION-EFFICIENCY of the pump.

By retrieving the "AI Features" of the "Pump audio characteristics – word embedding", we can develop "AI Recommendation" (ANN) of Energy Optimization strategy of the pump.

9) Sound Noise Removal

Audio Background Noise Removal Client: Teleconference Product

This is an enhancement feature to use AI to remove the background noise in teleconferencing

10) Musical Sound Identification

Some Feature in Song Recognition Application Our client: Music Mixer Platform

Our client application can recognize the songs after recording some songs from background We use "AI CNN, LSTM" network to annotate "what instrument is playing in the song".

- Acoustic_guitar
- Bass_drum
- Cello
- Clarinet
- Double_bass
- Flute
- Hi-hat
- SaxophoneSnare drum
- Violin_or_fiddle

Data Lake

Data Lake Data-Lake – "One Platform Multiple Systems"





Big Data Strategy (Unstructured Consolidation Strategy) Data-Lake "One Platform Multiple Systems"



<u>Data-Lake</u>

Demonstrate the use of Big Data Storage with Data Cleansing, Data Validation, BI Reporting techniques

Benefit:

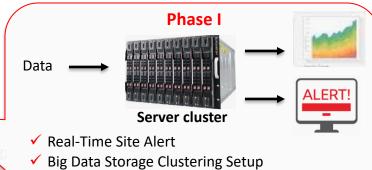
- [1] Faster & Time-to-Market "Cross-Site" BI Operation Reporting
- [2] Reduce Reporting Cost (Reduce Duplicated Data Processing across Reports)
- [3] Reduce Cost in AI Storage

[4] Data Consistency & Cleansing (Missing Data in Sensor; Sensor Value Range Check Sensor Data String and Numerical Type Checking)

Benefits:

- [1] Allow "Cross-Plant-Data" in Process Efficiency benchmarking
- [2] Cross-Site Equipment Efficiency benchmarking
- [3] Allow Real Control and Complete List of Equipment Inventory and Asset Management





Time-To-Market BI Dashboard

BIG DATA

installed on

Phase II



City-Wide Intelligent System Control

- Large Scale Intelligent Data Mining
- High Speed Structured Data Query
- Real Time Data Query & Machine Learning
- Server, Alert & Alarms

Phase III

Production Sites Deployment (One site by One site)

- Unstructured Data Processing
- Deployment site by site



From Document Automation to Knowledge Management

[1] OCR – Paper to Electronic Conversion

Document AI Strategy

Objective

Read textual data from paper or image format

How it works

Step 1: We can use scanner paper form to electronic image

Step 2: We can use AI OCR to retrieve the textual data from the image

Step 3: Export to CSV. Or Import to Database

SYSTEM AND COMPUTING DEVICE FOR DETERMINING BODY TEMPERATURE OF A PERSON

BACKGROUND

In light of the Covid-19 pandemic which swept the world in 2020, restaurants, shops and offices are increasingly taking the temperature of customers and people entering their premises. Typically the temperature measurement is done manually by an employee or security guard with a thermometer and infra-red thermometers are especially convenient as they do not require body contact. In some cases an infra-red thermometer is placed on a stand near the entrance to a shop or restaurant, so that the temperature of people entering the shop can be easily monitored. The application of such techniques to transport hubs, such as airports, is also of interest.

SUMMARY

A first aspect of the present disclosure provides a system for detecting people having high body temperature. The system comprises a video camera for generating visual data including a plurality of visual pixels, a thermal imaging device for generating thermal data including a plurality of thermal pixels and a computing device for receiving visual data from the video camera and temperature data from the thermal imaging device. The computing device is configured to detect visual pixels corresponding to a face area of a person in the visual data; identify thermal pixels corresponding to the face area based on the visual pixels corresponding to the face area; and determine a body temperature of the person based on temperature data of thermal pixels in the face area.

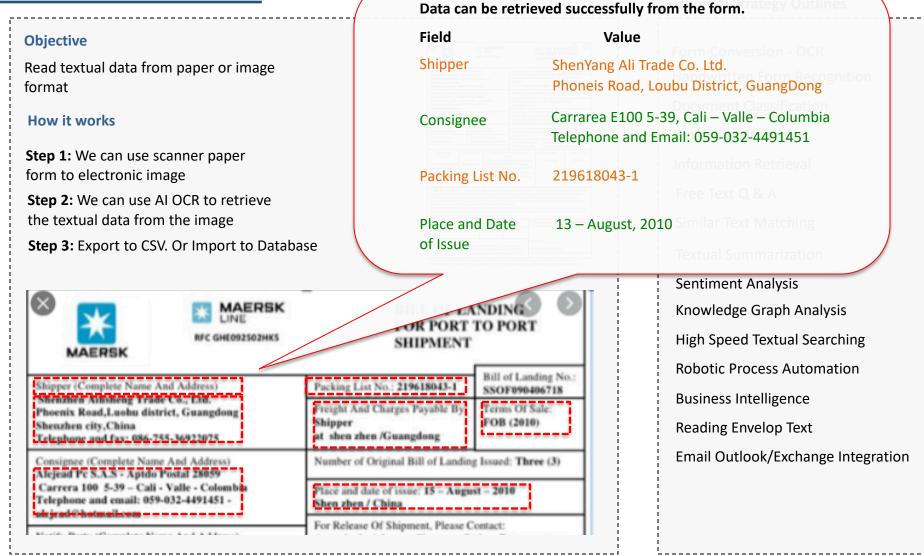
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Document Strategy Outlines

Form Conversion - OCR Handwritten Form Recognition Document Classification **Email Classification** Information Retrieval Free Text Q & A Similar Text Matching **Textual Summarization** Sentiment Analysis **Knowledge Graph Analysis** High Speed Textual Searching **Robotic Process Automation Business Intelligence Reading Envelop Text** Email Outlook/Exchange Integration

[2] Document Form Reading

Document Al Strategy



[3] Field Information Retrieval

Document AI Strategy

Objective

Retrieve Target Keywords from the free Text in the field

(Please refer to "[6] Free Text Q&A " for more advanced AI retrieval)

Client Example

A Government department retrieves key information from a free text field

Buyer ABC promised to pay Seller DEF with an amount of HKD\$ 3000 on 2 March, 2019. The invoice number is 82408329.

Field	Value
Buyer	Buyer ABC
Seller	Seller DEF
Amount	3000
Date	2 March, 2019
Invoice #	32408329

Instead of inserting the whole string to database, we retrieve field-level keywords into database for more accurate processing.

Document Strategy Outlines

Form Conversion - OCR Handwritten Form Recognition Document Classification **Email Classification** Information Retrieval Free Text Q & A Similar Text Matching **Textual Summarization** Sentiment Analysis **Knowledge Graph Analysis** High Speed Textual Searching **Robotic Process Automation Business Intelligence Reading Envelop Text** Email Outlook/Exchange Integration

[6] AI Q&A – Reading Comprehension

Document AI Strategy

Objective

User can ask AI question in Free-Text Question. The AI shall highlight and return the answer.

Client Example

Public Utilities use this AI Q&A techniques to create a Knowledge Management System.

Document Strategy Outlines

Form Conversion - OCR

Handwritten Form Recognition

Document Classification

Email Classification

Information Retrieval

Advanced AI NLP Techniques

Similar Text Matching

Train routes at incident location

The normal routes of passenger trains passing through turnouts⁴ P5116, P5114, P5111 and P5109 and turnouts P5116, P5114, P5112 and P5108 before entering Platform 1 and Platform 4 of Hung Hom Station of EAL, respectively, are shown in **Figure 3**. The incident train derailed just before entering Platform 1 at turnout P5116, which is located at a sharp curved track section on EAL. The speed limit of this section is 40 km/h. Each turnout consists of a point machine⁵, switch rails⁶, crossing⁷ and two check rails⁸. The layout of a typical turnout is shown in **Figure 4**.

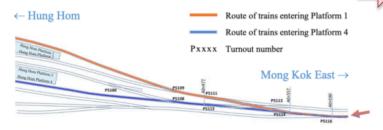


Figure 3 : Routes of trains entering Platform 1 and 4 of Hung Hom Station

Textual Summarization	
Passage	
The normal routes of passenger trains passing through turnouts 4 P5116, P5114, P5111 and P5109 and turnouts P5116, P5114, P5112 and P5108 before entering Platform 1 and Platform 4 of Hung Hom Station of EAL, respectively are shown in Figure 3. The incident train descibled inst before	le
Question	
when did it derail?	
Ru	in >
Answer	
just before entering Platform 1 at turnout P5116	
Passage Context	
The normal routes of passenger trains passing through turnouts 4 P5116, P5114, P5111 and P5109 and turnouts P5116, P5114, P5112 and P5108 before entering Platform 1 and Platform 4 of Hung Hom Station of EAL, respectively, are shown in Figure 3. The incident train deraile just before entering Platform 1 at turnout P5116 , which is located at a sharp curved track section on EAL. The speed limit of this sectio 40 km/h. Each turnout consists of a point machine5, switch rails6, crossing7 and two check rails8. The layout of a typical turnout is show Figure 4.	ed n is

[6] AI Q&A – Reading Comprehension

Document AI Strategy

07	Document Strategy Ou	utlines
Step 1: Given a lot of free-text data in files, pdf, csv or database. Step Vledge Managem	Form Conversion - O Handwritten Form R 2: User can freely type question Email Classification Information Retrieva	ecognition in Free Text.
Passage The normal routes of passenger trains passing through turnouts 4 P5116, P5114, P5111 and P5109 and turnouts P5116, P5114, P5112 and P5108 before entering Platform 1 and Platform 4 of Hung Hom Station of Paragram respectively, are shown in Figure 3. The incident train decomposition of Paragram Question when did it derail?		ng Ton nalysis Searching
	tep 3: AI responds by highlighting	the answer
Passage Context The normal routes of passenger trains passing through turnouts 4 P5116, P5114, P5111 and P5109 and tu P5108 before entering Platform 1 and Platform 4 of Hung Hom Station of EAL, respectively, are shown in Fi just before entering Platform 1 at turnout P5116, which is located at a sharp curved track section on E 40 km/h. Each turnout consists of a point machine5, switch rails6, crossing7 and two check rails8. The l Figure 4.	igure 3. The incident train derailed AL. The speed limit of this section is	



Search Related docoment with common keywords

By NLP

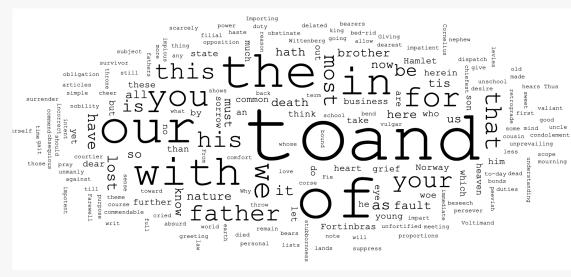
Objective

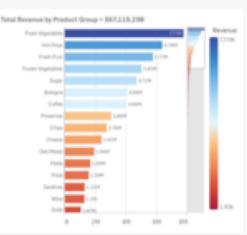
....

Discover Different Keywords from the documents. We can find the trends in the document

Keywords Retrieved from Patent Document

Claim: 57 Pantogram: 32 Deep Learning: 49 Convolution: 25



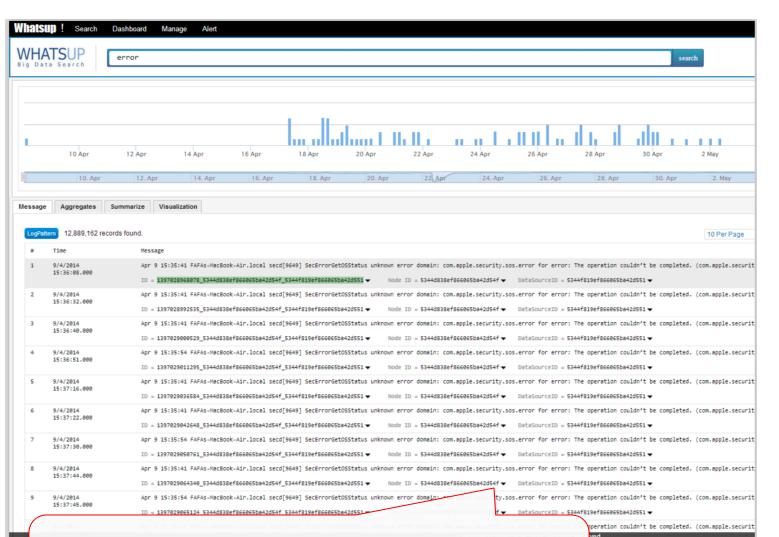


Document Strategy Outlines Form Conversion - OCR Handwritten Form Recognition **Document Classification Email Classification Information Retrieval** Free Text Q & A Similar Text Matching **Textual Summarization** Sentiment Analysis **Knowledge Graph Analysis High Speed Textual Searching Robotic Process Automation Business Intelligence Reading Envelop Text** Email Outlook/Exchange Integration

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Phase 1: (c) Trends of Similar Incidents Insight Visualizations



Calculation of Similarity Scoring [Relevance: 0 - 100]

- ✓ Top Down Drill-Down from Map Level
- High-Level of Numbers



Find Similar Incident/Document with common Question

By NLP

Objective

Retrieve Target Keywords from the free Text in the field

(Please refer to "[6] Free Text Q&A " for more advanced AI retrieval)

What is the trend of "Convolution Neural Network" in patent document?

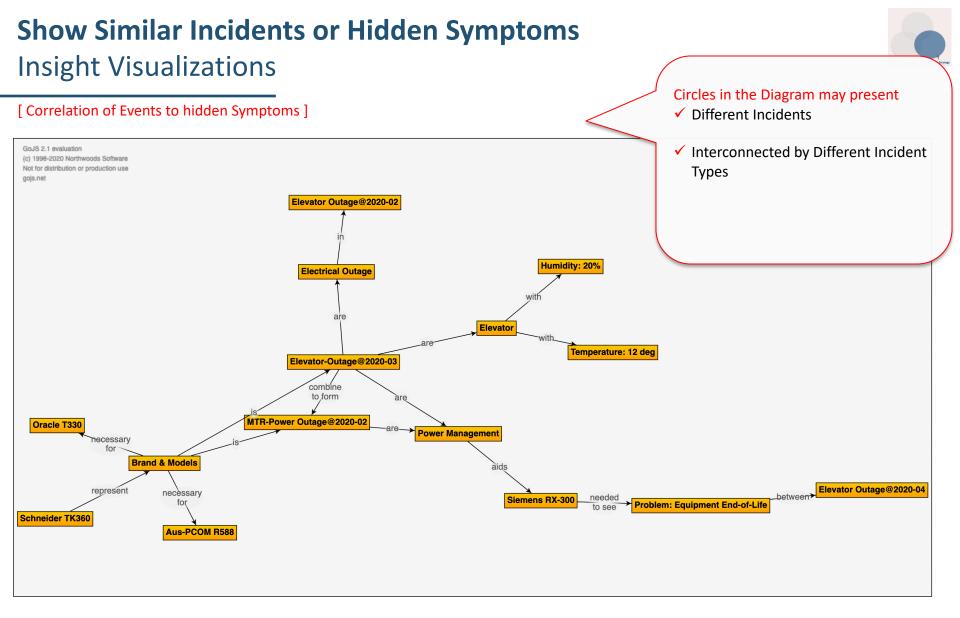


Any similar patent document from 2015-2019?

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Document Strategy Outlines Form Conversion - OCR Handwritten Form Recognition **Document Classification Email Classification** Information Retrieval Free Text Q & A Similar Text Matching **Textual Summarization** Sentiment Analysis **Knowledge Graph Analysis** High Speed Textual Searching **Robotic Process Automation Business Intelligence Reading Envelop Text** Email Outlook/Exchange Integration



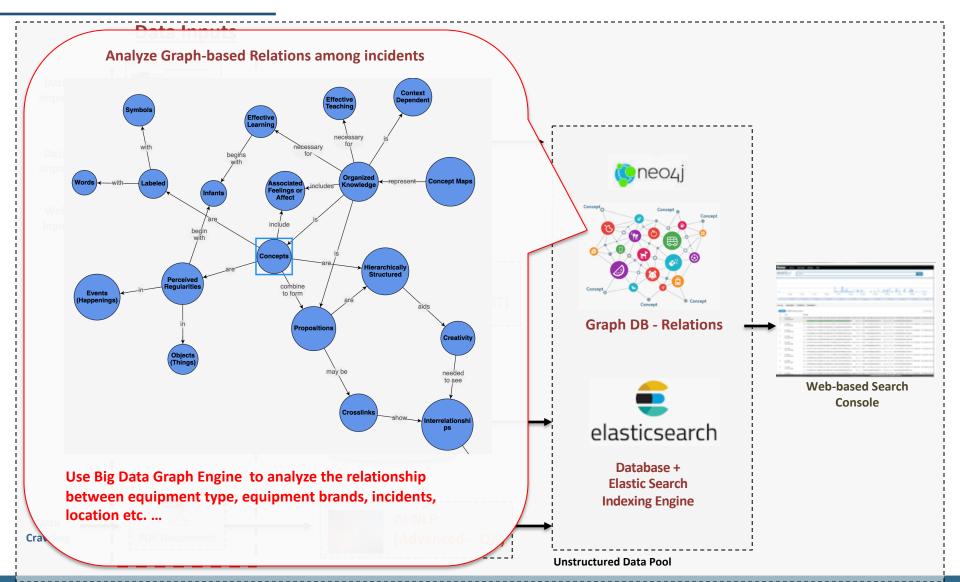


Watch demo!



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Knowledge Graph Analysis: Semantic Understanding + Symptoms Tre Graph Relationship Visualization + Complicated Root Cause Analysis



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[3] Document Classification by AI

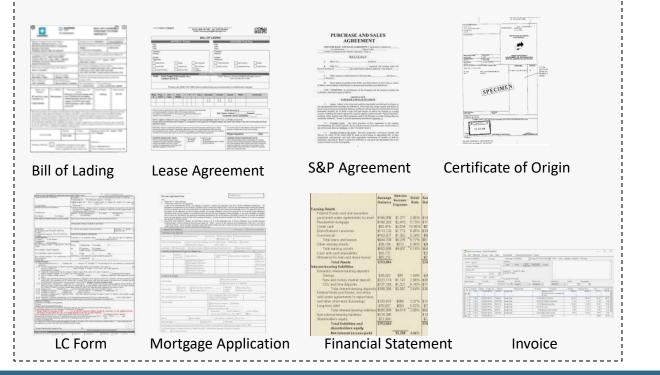
Document AI Strategy

Objective

Classify documents based on content (such as "Bill of Lading", "Sales & Purchase Agreement", "Lease Agreement", "Invoice", "Certificate of Origin", and more)

Client Example

A French Bank is using our technology to classify documents based on textual content.



Document Strategy Outlines

Form Conversion - OCR Handwritten Form Recognition **Document Classification Email Classification** Information Retrieval Free Text Q & A Similar Text Matching **Textual Summarization** Sentiment Analysis **Knowledge Graph Analysis High Speed Textual Searching Robotic Process Automation Business Intelligence Reading Envelop Text** Email Outlook/Exchange Integration

[8] Text Summarization

Document Al Strategy

Objective

Users may not have time to read many long pieces of textual paragraphs. Al is used to summarize data from long paragraphs (1000 words) to a few words (10 words).

Client Example

A financial trading desk require fast reading of news during trading hours. News are summarized from 1000 words to 10 summarized words by AI.



Document Strategy Outlines

Form Conversion - OCR Handwritten Form Recognition Document Classification **Email Classification** Information Retrieval Free Text O & A Similar Text/Content Matching **Textual Summarization** Sentiment Analysis **Knowledge Graph Analysis High Speed Textual Searching Robotic Process Automation Business Intelligence** b Text

[4] Email Classification by AI

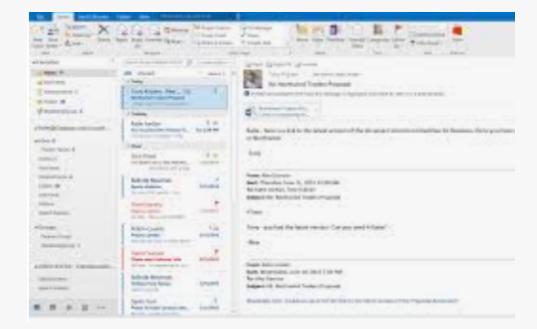
Document AI Strategy

Objective

Classify Email to different team based on content recognition (To Mortgage Team ? Loan Team ? Settlement Team? Front-Office-Sales Team ?)

Client Example

A telecom customer service use our AI NLP and Robotic Processing Automation to classify and dispatch email automatically.



Document Strategy Outlines Form Conversion - OCR Handwritten Form Recognition **Document Classification Email Classification** Information Retrieval Free Text Q & A Similar Text Matching **Textual Summarization** Sentiment Analysis **Knowledge Graph Analysis High Speed Textual Searching Robotic Process Automation Business Intelligence Reading Envelop Text** Email Outlook/Exchange Integration



[12] Robotic Process Automation (with Outlook)

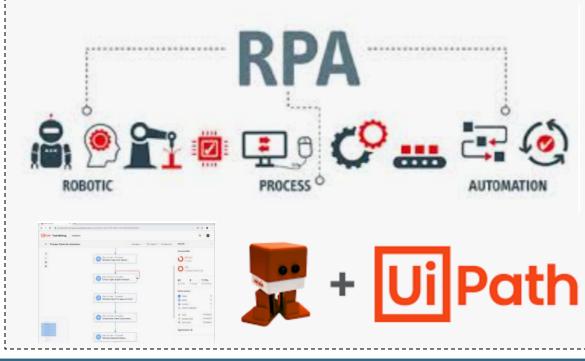
Document AI Strategy

Objective

Use RPA script to automate all repetitive document actions from users.

Client Example

An internal audit client requires to login to many 3rd party partner website to do AML, KYC and company search. These repetitive actions (auto-login to 3rd party website=> copy search text to website => click search button => copy back the website search result)



Document Strategy Outlines

Form Conversion - OCR Handwritten Form Recognition **Document Classification Email Classification** Information Retrieval Free Text Q & A Similar Text/Content Matching **Textual Summarization** Sentiment Analysis **Knowledge Graph Analysis High Speed Textual Searching Robotic Process Automation Business Intelligence Reading Envelop Text** Email Outlook/Exchange Integration

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[14] Reading Envelop Text

Document AI Strategy

Objective

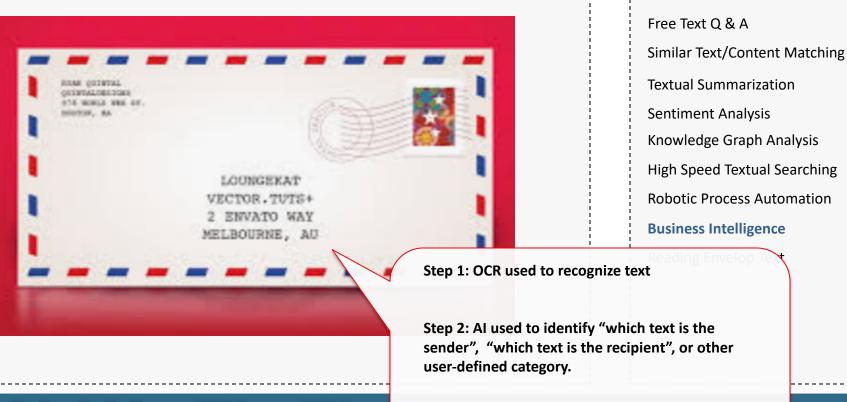
Read Text from Envelop or Name Card

How it works

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We can extract the recipient or any info for further envelop processing.



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Document Strategy Outlines

Form Conversion - OCR Handwritten Form Recognition **Document Classification Email Classification** Information Retrieval

[15] Email Outlook/Exchange Integration

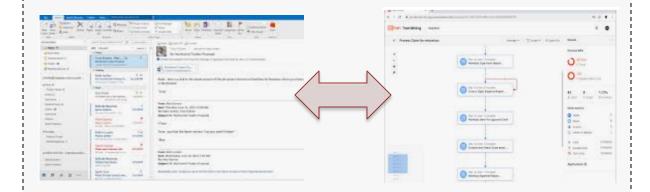
Document AI Strategy

Objective

Use RPA script to send/forward Email for different document received

Client Example

A government department automate the customer service by auto-dispatch public emails to different operation teams via Email Outlook RPA





Document Strategy Outlines

Form Conversion - OCR Handwritten Form Recognition **Document Classification Email Classification** Information Retrieval Free Text Q & A Similar Text/Content Matching **Textual Summarization** Sentiment Analysis **Knowledge Graph Analysis High Speed Textual Searching Robotic Process Automation Business Intelligence Reading Envelop Text** Email Outlook/Exchange Integration



[13] Business Intelligence on Document Data

Document AI Strategy

Objective

Allow Actionable Insight Drill of "Document data" retrieved from all other AI strategies

Client Example

A bank client is using BI (tableau) to allow business unit operation team to do adhoc drill into of compliance data.



Term-sheet Analysis

all Returns by Ye		all Returns by Channel			
Returns as % o	f Sales				
Call Center			•7.2%		
Catalog 📕			•7.2%		
Mobile Store			•7.8	%	
Online Store				•9.3%	
Retail Store				9.5%	
0	5	10	15	20	
					м

Social Media Analysis



Customer Analysis

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Sales Analysis



Credit Card Churn Analysis



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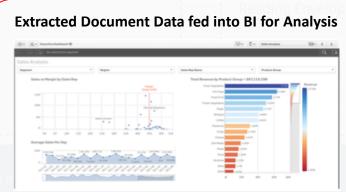
Product Performance Analysis



Customer Segmentation

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Compliance Report



Document Strategy Outlines

Form Conversion - OCR Handwritten Form Recognition **Document Classification Email Classification** Information Retrieval Free Text Q & A Similar Text/Content Matching **Textual Summarization** Sentiment Analysis **Knowledge Graph Analysis High Speed Textual Searching Robotic Process Automation Business Intelligence**

[2] Handwritten Form Recognition

Document AI Strategy

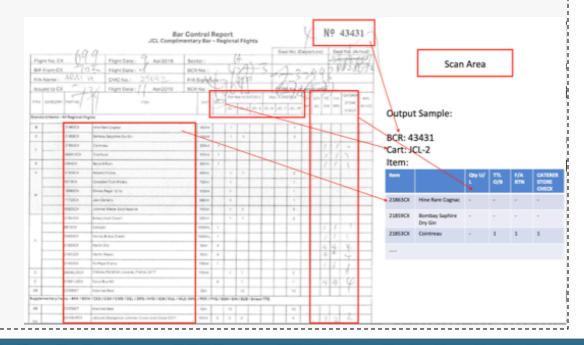
Objective

Read textual data from Handwritten Digits

Client Example

An airline client has a lot of form filling in. We automate the retrieve of form data by AI

Digit Recognition Accuracies as high as 99.97% in last project



Document Strategy Outlines

Form Conversion - OCR **Handwritten Form Recognition Document Classification Email Classification** Information Retrieval Free Text Q & A Similar Text Matching **Textual Summarization** Sentiment Analysis **Knowledge Graph Analysis High Speed Textual Searching Robotic Process Automation Business Intelligence Reading Envelop Text** Email Outlook/Exchange Integration



[9] Sentiment Analysis for Customer Upsell

Document AI Strategy

Objective

Sentiment Analysis can be analyzed to customer data. The result can be used for AI customer analytic upsell strategy.

Client Example

A financial client, Telecom operators, Logistic Express Operator with B2C business has deployed sentiment analysis for the customer data. Customer behaviour has been successfully extracted for further customer upsell.



Document Strategy Outlines

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Other References

More Product References

Big Data Social Media Data Search Engine



Wall-Street High-Frequency Trading Algorithmic Engine

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Secure Real-Time IP Phone System





Log Management

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Big Data Document Management System

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High Speed Big Data Document Text Searching

Education Clients





Client References [Logistics Association] AI – Activity Recognition	 [Manufacturing Clients] Machine Motor Abnormality Detection & Predictive Maintenance (Al) Our Client Factory Plants with 150,000 sq feet Machine Predictive Maintenance 	<section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header>
[Shopping Mall] Location-based Big Data Analytics in Shopping Mall	[Manufacturing Clients] AI - Computer Vision for Food Picking with Robotics (Image Recognition)	[Manufacturing Clients] AI - Computer Vision for Traffic Objects

THANK YOU

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