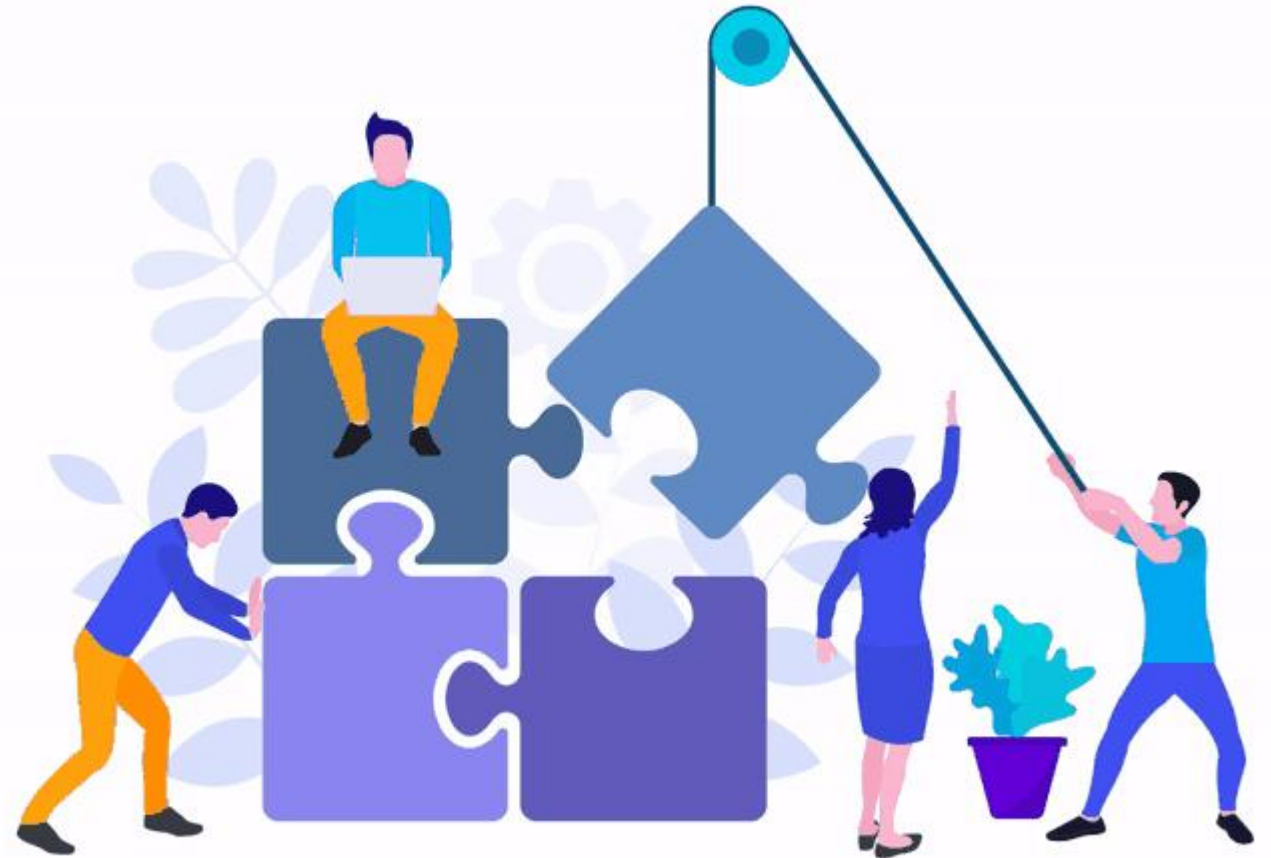
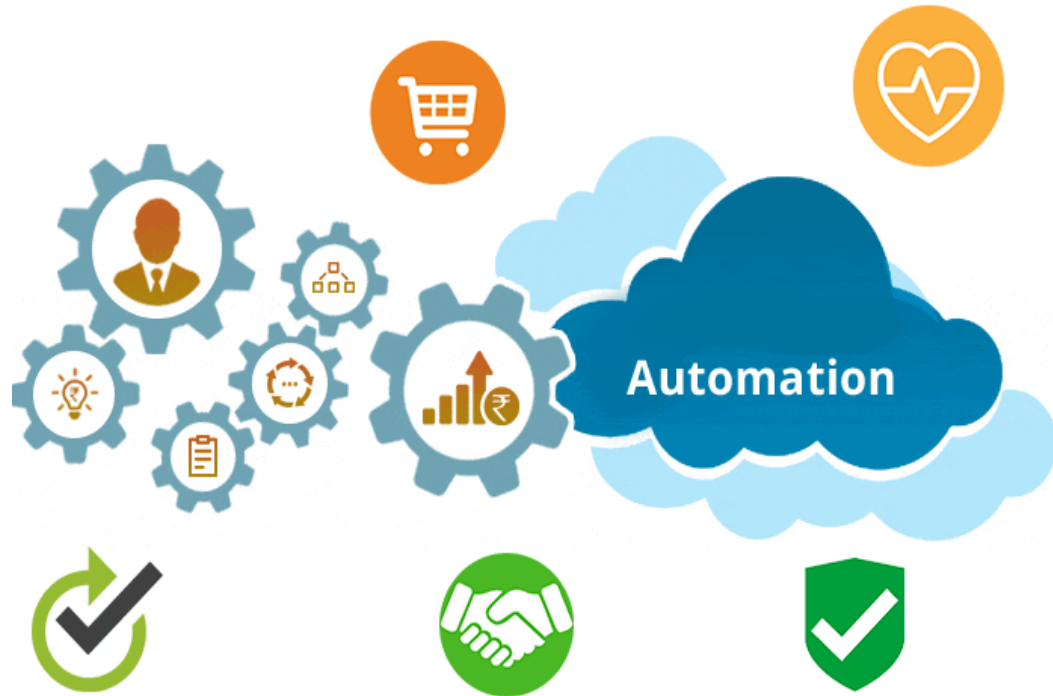


COMPANY PROFILE



OUR COMPANY



- **WE HELP**
Optimizing Digital Transformation
- **WE OFFER**
Solutions under the framework –
H1 (Horizon One) - EXPLOIT
Revenue generating products/platform
H2 (Horizon Two) – EXPLORE
Working on Future Technology/Product which are at exploratory stage
- **OUR LAB**
At Don Bosco Institute Of Technology Mumbai
- **PROMOTED BY**
Alumnus of Harvard, IIT and IIM

MISSION

Partner with our customers to achieve excellence by delivering Data Driven Automation through our Scalable Platform
- ensuring Compliance, Speed and Accuracy

VISION

Be the first Choice of providing value to customer's customer while automating any process and making sense from unstructured and structured data in any company (size, industry) & in any part of geography.

OUR CONDUCTS

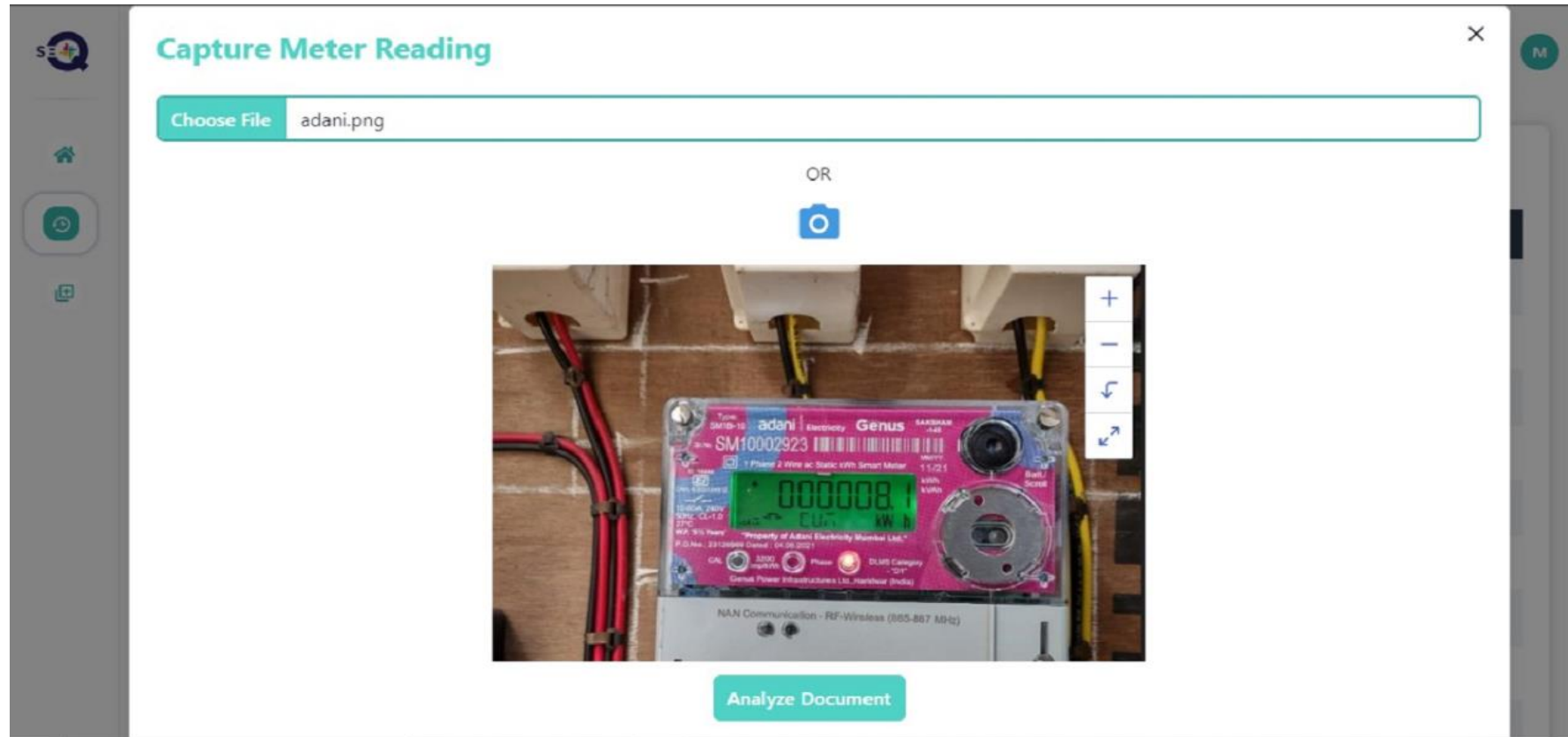
VALUE

To build a culture of continuous improvement through innovation with a reputation for Integrity, Excellence, and focus on Customer & Employee first.

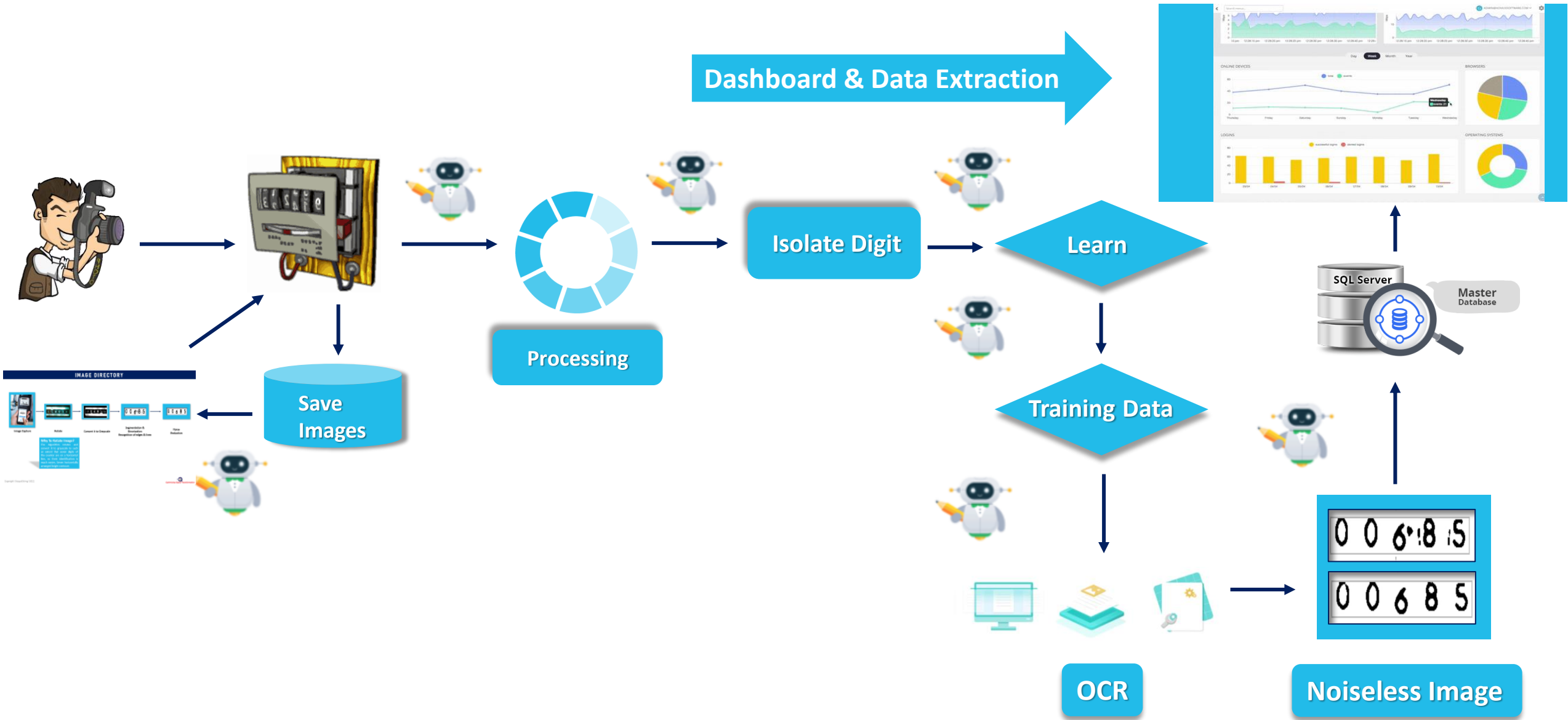
“Innovation is taking two things that exist and putting them together in a new way”

- Tom Freston

AI Driven LLM Based Meter Reading Platform



DATA EXTRACTION



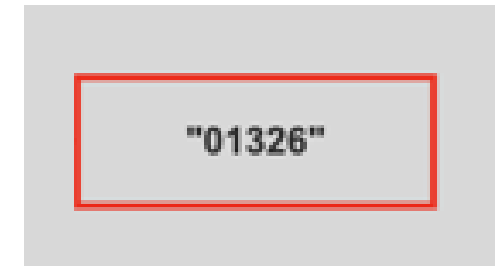
TEXT DETECTION & RECOGNITION - OCR



Raw image of the Sub-Meter



Extracting the Region of Interest (Object Detection)

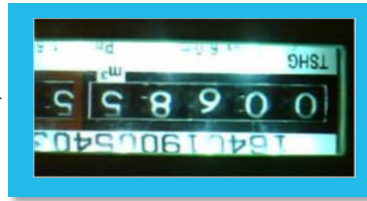


Digit Recognition (OCR)

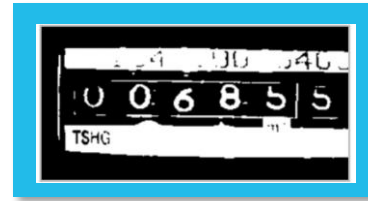
IMAGE DIRECTORY



Image Capture



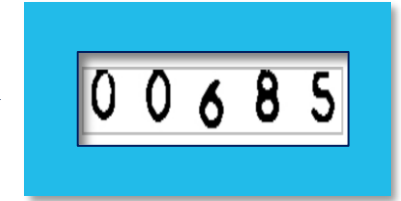
Rotate



Convert it to Grayscale



Segmentation &
Binarization
Recognition of edges & lines



Noise
Reduction

Why To Rotate Image?

The Algorithm rotates and convert it to grayscale to such an extent that seven digits of the counter are on a horizontal line, so their identification is much easier, Seven horizontally arranged bright contours

REAL IMAGE AND DATA EXTRACTION



```

2020-09-02
17:33:44
Lat: 19.13397238
Long: 73.10714095
username:
sagar4.salunkhe
Trifiergy"
-
Testress 2710
-
SRPF
    
```

```

Genus
144772
6388977
05
-
- - - -
am
RMA
1
RS 232
    
```



```

username .
mujahid.ansari
AC Static Watthoue
Meter
ER300P
Compatible ver -
CAT-EX
00002629**
-
DEE
WMM
*VAm
PROPERTY
- - - -
M200568
2 D
LARSEN -
    
```



```

kWh.-DG: 0000.0
>MnsU-B Fail/Low
****
9
00
0
0
000
FAULT RESET
    
```



```

:132:04 hh:mm
: 00:00 hh:mm
17:42:04
ttRunhours 956.26
MainsRunHrs3P 125:59 hi
GenRunhours
DcDgRunHrs
SYSTEM ALARM
Battery
MAJOR ALARM
    
```



```

2020-09-02 17:50:52
Lat: 18.288616
Long: 75.64096
username:
chandrashekar.ce
MODULE (MAM)
MnsRun: 704:07:00
STA
All Sys. Normal
I
AA
ST
CN
E.B. CN
0
PCO
P
FAULT RESET
    
```



```

2020-09-02 18:01:49
Lat: 15.5748106
Long: 73.8069607Z
username : abhilakh.singh
EB COTAL RUN HOURS
7856: 40 Hrs
SVS BATT RUN HOURS
159: 27 Hrs
    
```


BENEFITS

Ease of Meter Reading

The data can be collected by consumers themselves with no requirement to have knowledge of how to read sub-meters

Ease of access

Representatives doesn't need to struggle with reading meters

Optimization

The amount of money saved can be used to upgrade the existing system of devices

Transparency

Consumers can keep track of their usage metrics allowing for transparency and reducing situations of dispute

Repurposed

Existing mobile devices can be repurposed for dedicated devices as training is seldom required

CHALLENGES & DRAWBACKS

Lot of pre-processing is required which leads to loss of information

If the texts are sparse with complex background; OCR techniques fail to recognize correctly

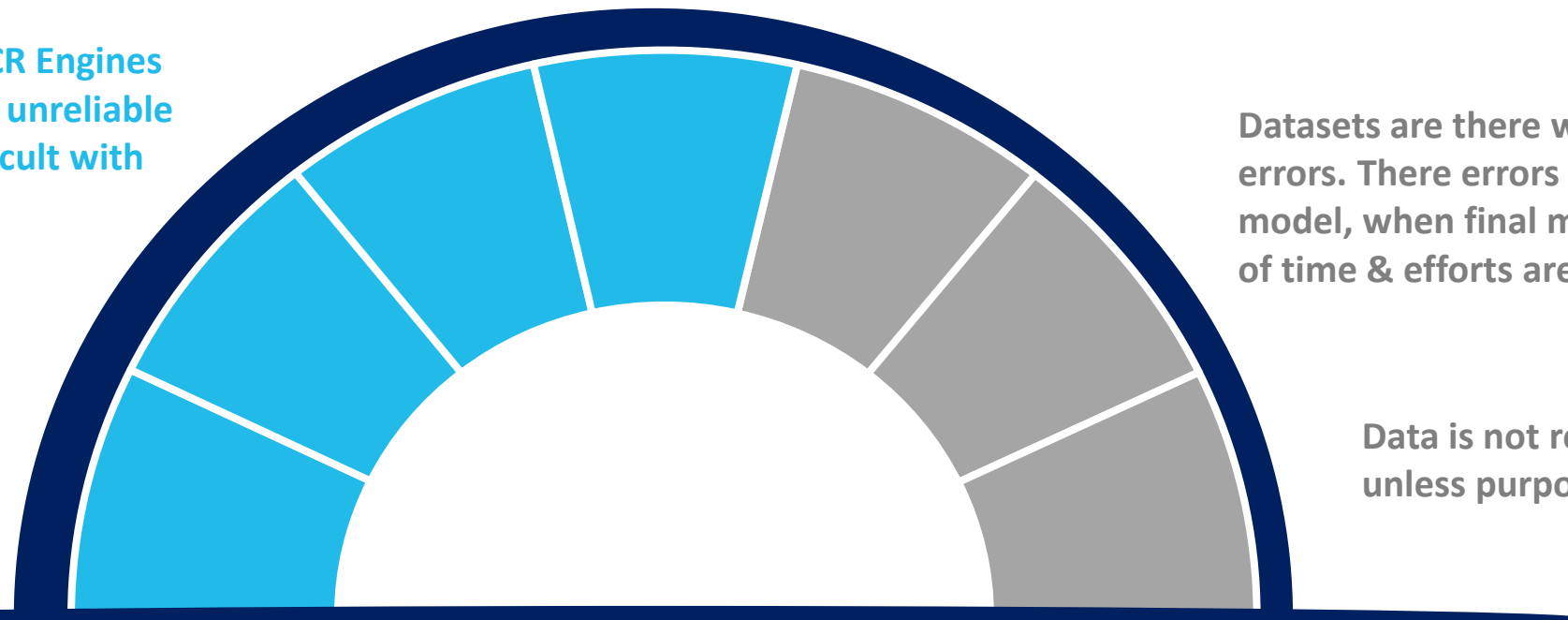
Sometimes readily available models detect texts wrongly. Retraining the large size model on a new dataset slows down the process & leads to an inefficient pipeline

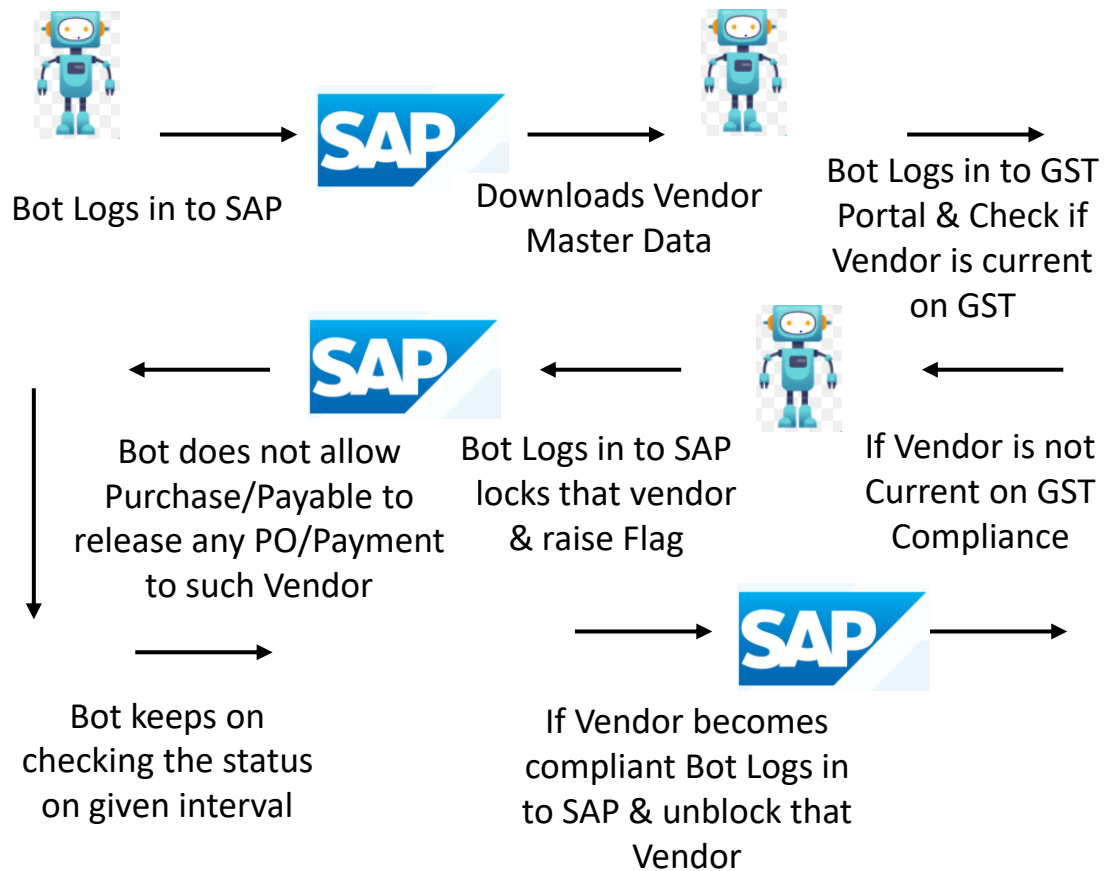
If image is poor, OCR Engines give inconsistent & unreliable outputs. More difficult with mobile devices.

Datasets are there with lot of human errors. These errors can debug the model, when final model is tested lot of time & efforts are required

Font sizes lesser than 12 points shows inaccurate output

Data is not readily available unless purposefully collected





Blocking of Vendors who are noncompliant

WE SERVED



Largest two-wheeler manufacturer in the world



Largest Specialty glass player in Asia

Largest telecom infrastructure company in the world

Tata Power-India's Largest Integrated Power Company

The world's largest supplier of diamonds in terms of value



Advisory and Business Process Management Services company, whose group company is largest manufacturer of tractors in the world

India's largest hospital-focused supply Chain Company



India's largest apparel manufacturer & highest Group Employment Provider



Two out of World's big Four Consulting & Advisory Firm

Owns and operates 31 luxury hotels and two river cruise ships in 5 countries

India's largest Rural home financial company



aknamed



SOME MORE SERVED CUSTOMERS





R&D and Innovation Lab
Don Bosco Institute Of Technology
Opp HDIL Premier Exotica Kurla (W), Mumbai- 400070

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ravish@sequelstring.com +919930027455