

KAIT

ICT 기업의 성장 플랫폼

BM 과정

2019. 07

에스투비즈
대표컨설턴트
이 이 백



목 차

I. Big Data Architecture와 AI 시스템의 Position

II. AI 구축 방법론

III. Industry 4.0

IV. AI 시스템 구축을 위한 기본 지식과 기술

V. Dee Learning Revisit

VI. Business Model과 AI Topic 발굴

V

Business Model과 AI Topic 발굴

Topic Sheet
&
Appendix



VI. Business Model과 AI Topic 발굴

Topic Sheet

4

■ 작성자 Profile

이름	
자기 소개	
관심 분야	

구분	As-Is	To-Be
비즈니스 역량		
기술 역량		

Topic Sheet

5

구분	내용
Topic Title	
Business Contribution	
데이터 수집 방안	

Topic Sheet

6

- Topic 선정

구분	내용
Topic Title	
유사 References	
차별성	

Topic Sheet

7

- Entity & Attributes

Topic Sheet

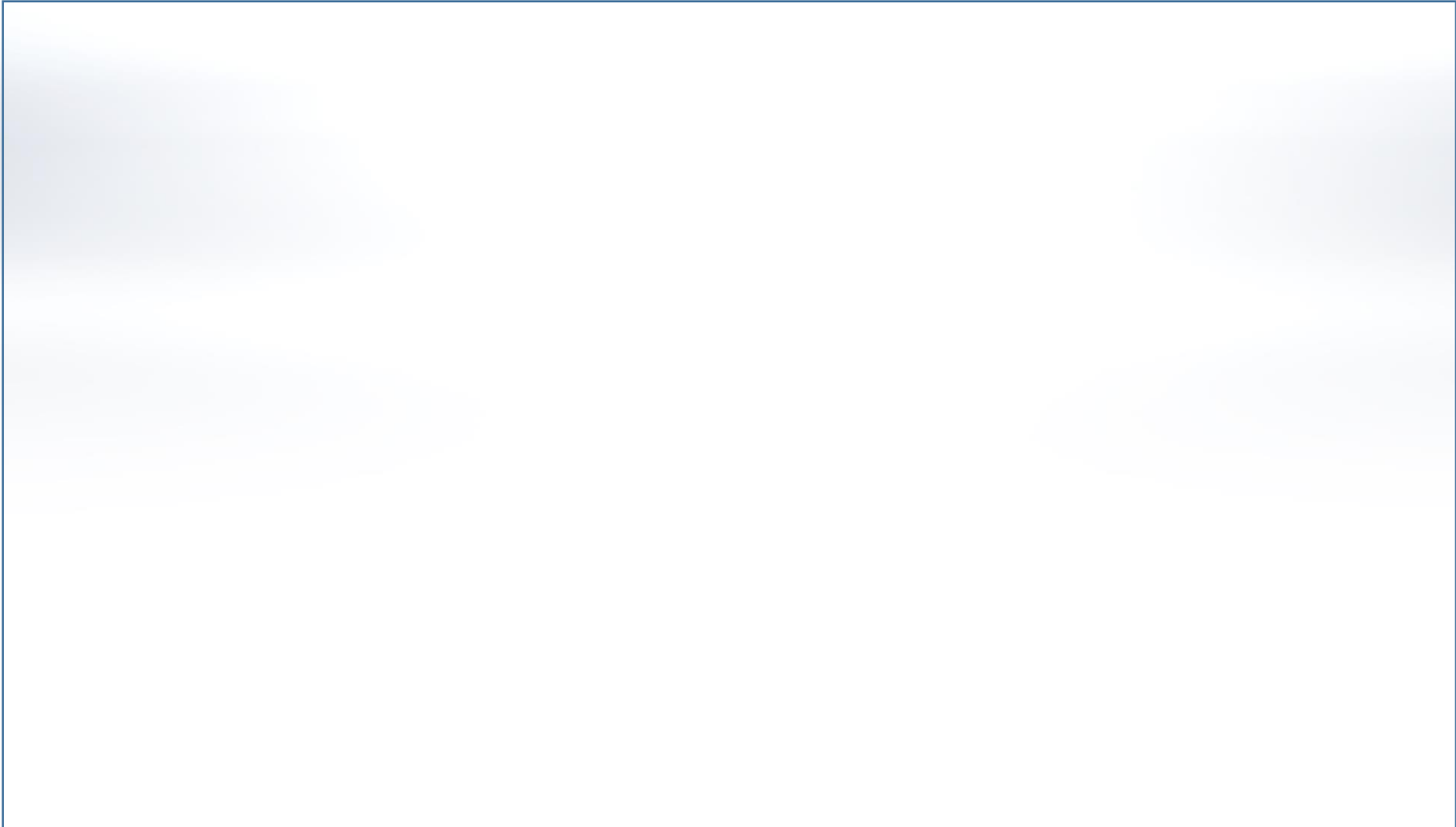
8

- Service Process

Topic Sheet

9

- Output Image



Appendix

10

예시 > Output Image



[source] <https://dzone.com/articles/image-processing-in-python-with-pillow>

Appendix

11

■ 예시 > Output Image

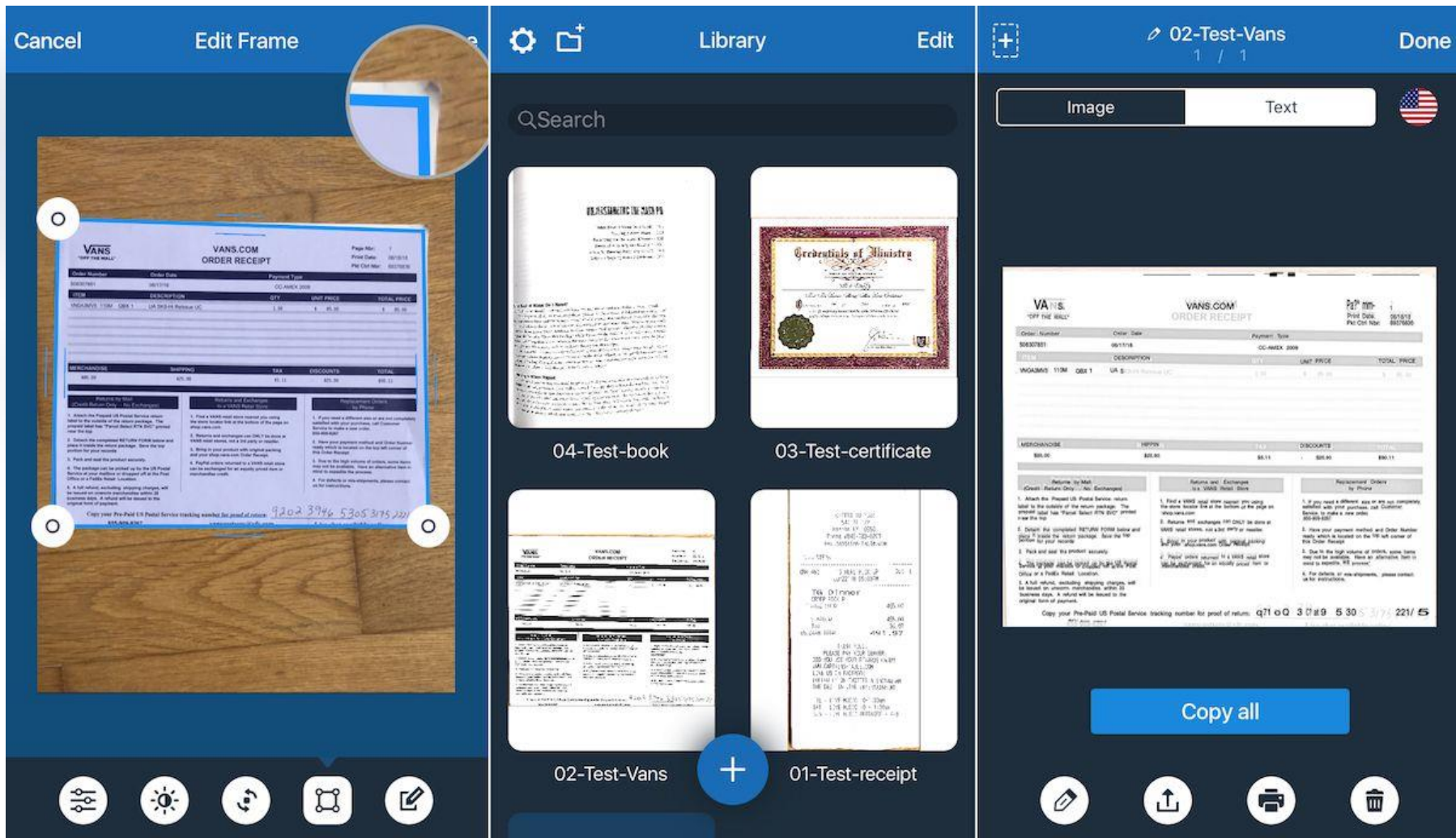


[source] <https://www.marutitech.com/working-image-recognition/>

Appendix

12

예시 > Output Image

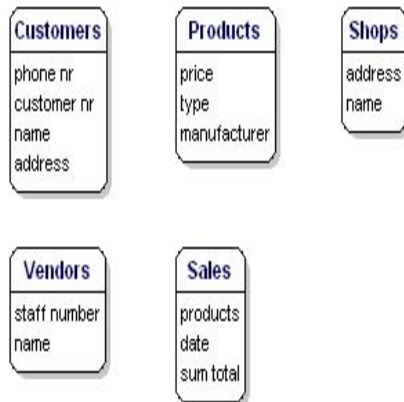


Appendix

13

예시 > Entity & Attributes

Type 1



conventionally designed

Entity1		
Attribute11	Attribute12	...
Value111	Value121	...
Value112	Value122	...
...

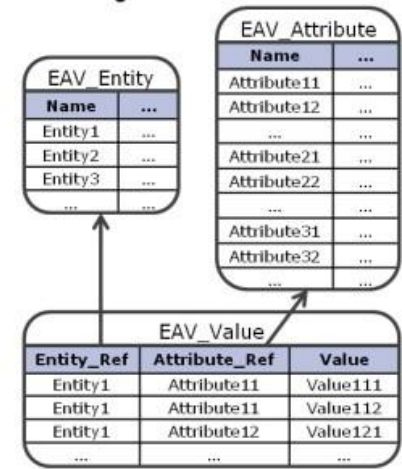
Entity2		
Attribute21	Attribute22	...
Value211	Value221	...
Value212	Value222	...
...

Entity3		
Attribute31	Attribute32	...
Value311	Value321	...
Value312	Value322	...
...



Type 2

designed with EAV model



Type 3

Entity_Name	Entity_Id	Attribute_Name	Attribute_Value
Sprockets	421	Sprocket_Name	Confabulator
Sprockets	421	Sprocket_Description	The confabulator is a great...
Sprockets	421	Sprocket_Category_Id	92
Categories	93	Category_Name	Good Sprockets
Categories	93	Category_Description	If you need a good sprocket...
Categories	93	Category_Display_Seq	4
Categories	93	Category_Color	#FFF000
Categories	97	Categorn_Name	Awesome Sprockets
...

Appendix

14

- 예시 > Service Process

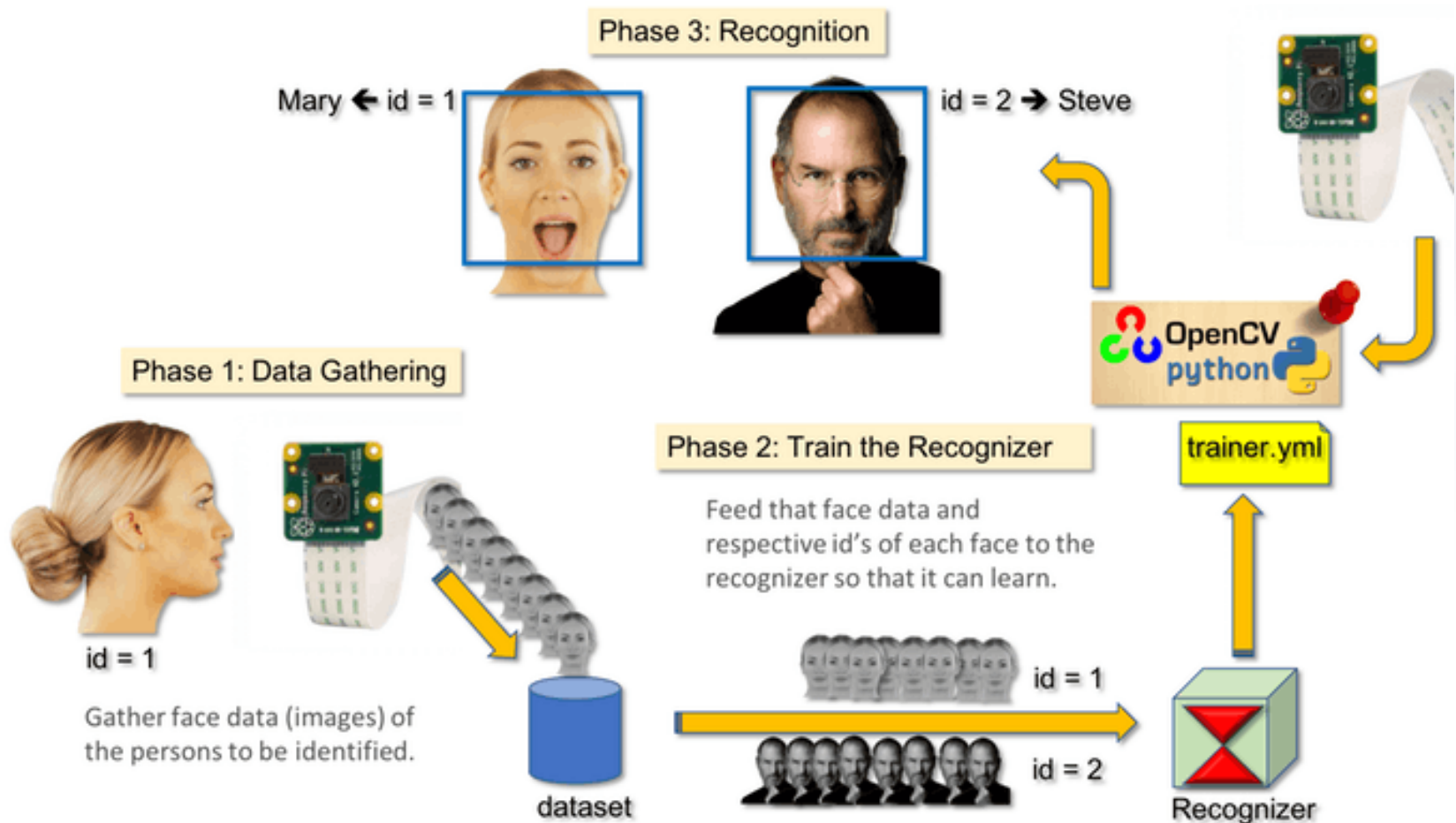


[source] <https://dzone.com/articles/how-big-data-has-the-biggest-impact-in-smart-cities>

Appendix

15

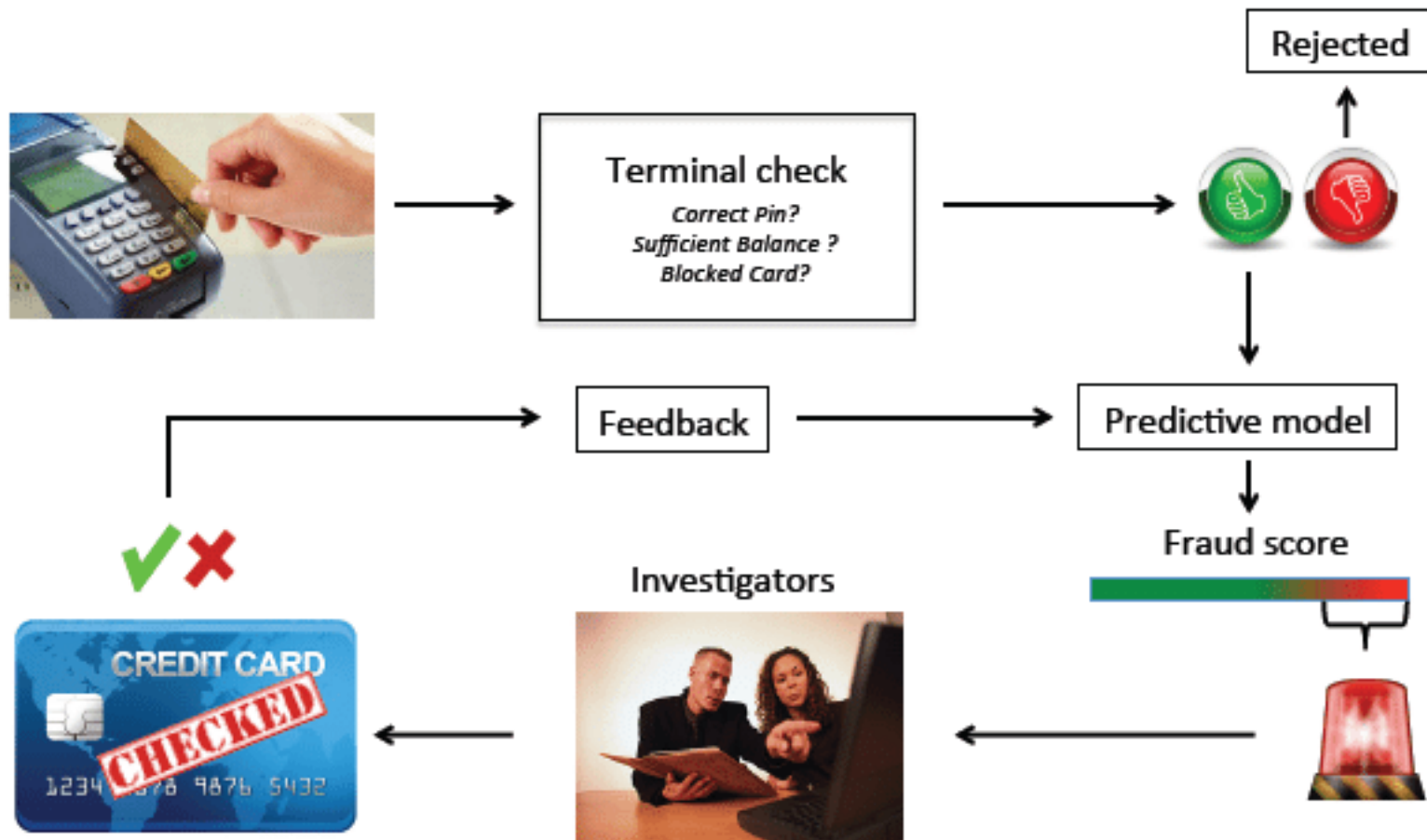
■ 예시 > Service Process



Appendix

16

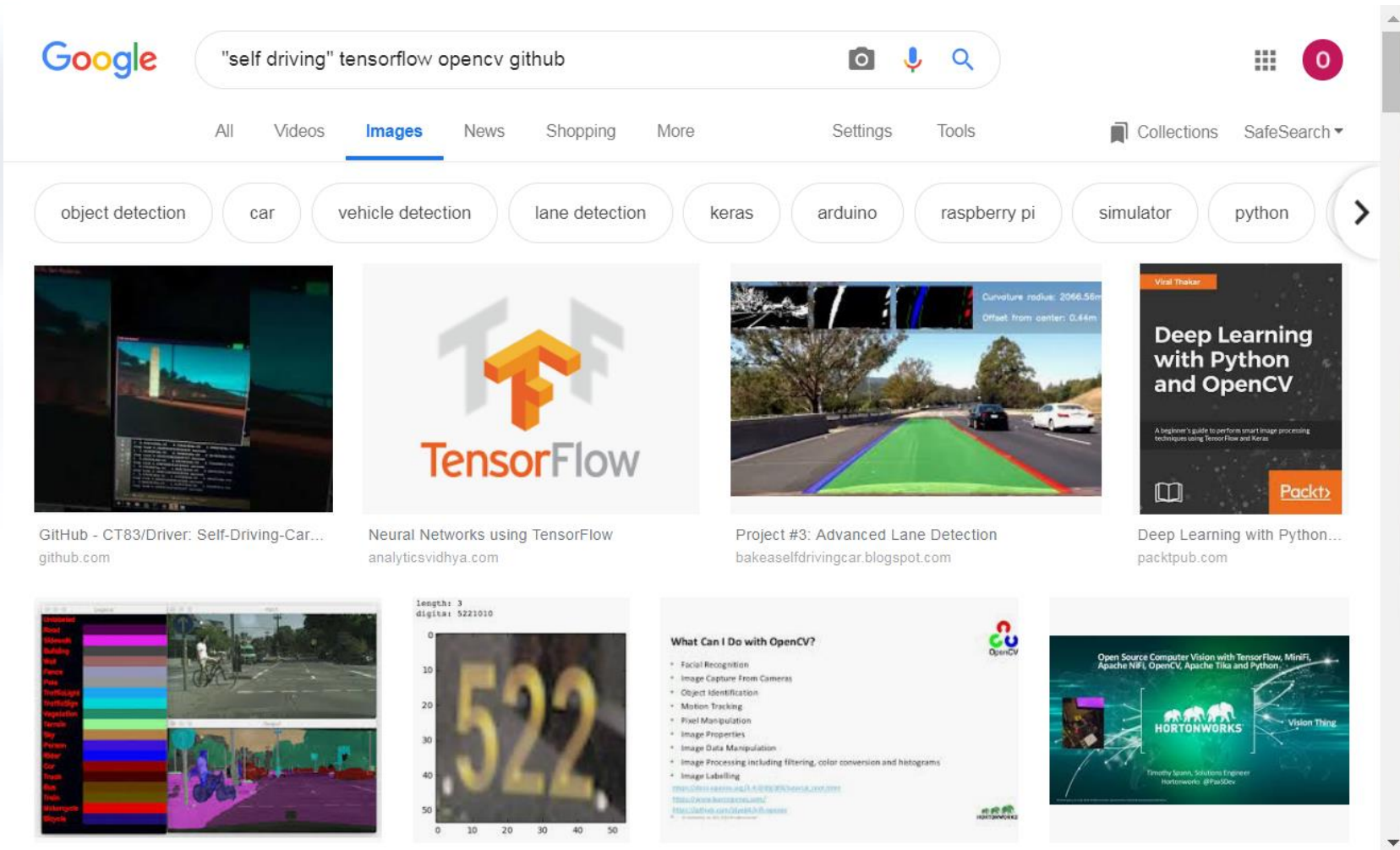
- 예시 > Service Process



Appendix

17

- 예시 > 검색 > "self driving" tensorflow opencv github



Appendix

18

- 예시 > 검색 > lstm document classification stackoverflow

The screenshot shows a Google search interface with the query 'lstm document classification stackoverflow'. The search results list several articles related to LSTM and text classification. The first result is 'Multi-Class Text Classification Model Comparison and Selection' from towardsdatascience.com. The second is 'Sequence Classification with LSTM Recurrent Neural Networks in ...' from machinelearningmastery.com. The third is 'Intro to text classification with Keras: automatically tagging Stack ...' from cloud.google.com. The fourth is 'Classifying Names with a Character-Level RNN — PyTorch Tutorials ...' from pytorch.org. The fifth is 'Performing Multi-label Text Classification with Keras | mimacom' from blog.mimacom.com.

Google

lstm document classification stackoverflow

Multi-Class Text Classification Model Comparison and Selection
<https://towardsdatascience.com/multi-class-text-classification-model-comparison-and-s...>
Sep 24, 2018 - The same principles apply to text (or **document**) **classification** where ... We are using a relatively large data set of **Stack Overflow** questions and ...

Sequence Classification with LSTM Recurrent Neural Networks in ...
<https://machinelearningmastery.com/sequence-classification-lstm-recurrent-neural-netwo...>
Jul 26, 2016 - How to develop an **LSTM** model for a sequence **classification** problem. Importantly, this is a **template** that you can use to apply **LSTM** answer. [http://stackoverflow.com/questions/41322243/how-to-use-keras-rnn-for-text-](http://stackoverflow.com/questions/41322243/how-to-use-keras-rnn-for-text-...) ...

Intro to text classification with Keras: automatically tagging Stack ...
<https://cloud.google.com/.../intro-to-text-classification-with-keras-automatically-taggin...>
Oct 6, 2017 - Keras on BigQuery allows robust tag suggestion on **Stack Overflow** posts. Learn how to train a **classifier** model on a dataset of real **Stack** ...

Classifying Names with a Character-Level RNN — PyTorch Tutorials ...
https://pytorch.org/tutorials/intermediate/char_rnn_classification_tutorial.html
We will be building and training a basic character-level **RNN** to **classify** words. ... to <https://stackoverflow.com/a/518232/2809427> def unicodeToAscii(s): return ...

Performing Multi-label Text Classification with Keras | mimacom
<https://blog.mimacom.com/text-classification/>
Jul 31, 2018 - Text **classification** is a common task where machine learning is applied. ... Just like on **Stackoverflow** and other sites which belong to ... the class imbalance problem and supported resampling strategies in its **documentation**.

Appendix

19

- 예시 > 검색 > embedded system raspberry pi "q learning"

The screenshot shows a Google search interface with the query "embedded system raspberry pi 'q learning'". The results list several videos and articles related to Raspberry Pi and AI projects.

Google embedded system raspberry pi "q learning"

<https://www.youtube.com/watch?v=EoryKkCHsdK>
Jun 19, 2018 - Uploaded by BadMister H1235
Raspberry pi 3. ... ROBOT ALPHABOT 2 PI. BadMister H1235. Loading...
Unsubscribe from BadMister H1235 ...
▶ 0:13

Embedded World 2018 - Cute Robot AI Demo from Spoon AI - YouTube
https://www.youtube.com/watch?v=5_reHEr7fYY
Mar 1, 2018 - Uploaded by EmbeddedRelated.com
Embedded World 2018 - Cute Robot AI Demo from Spoon AI.
EmbeddedRelated.com. Loading ...
▶ 1:43

Autonomous RC vehicle with RaspberryPi and Arduino - Part 1
curvetube.com/Autonomous_RC_vehicle_with_RaspberryPi.../Frz6TM0ciFM.video
Jul 11, 2017 - Uploaded by ///M_Guy
The brain is a **RaspberryPi 2** with a Picamera. ... Autonomous RC vehicle with **RaspberryPi** and Arduino ...
▶ 1:55

SIK v4.0 Extra Projects - News - SparkFun Electronics
<https://www.sparkfun.com/news/2538>
Nov 29, 2017
A full walkthrough for building the sound detecting lamp **system** can be ... further to implement a **Q-Learning** ...
▶

AlphaStar - a new artificial intelligence system for StarCraft II from ...
<https://quick-geek.github.io/articles/437486/index.html>
Jan 25, 2019 - Uploaded by DeepMind

