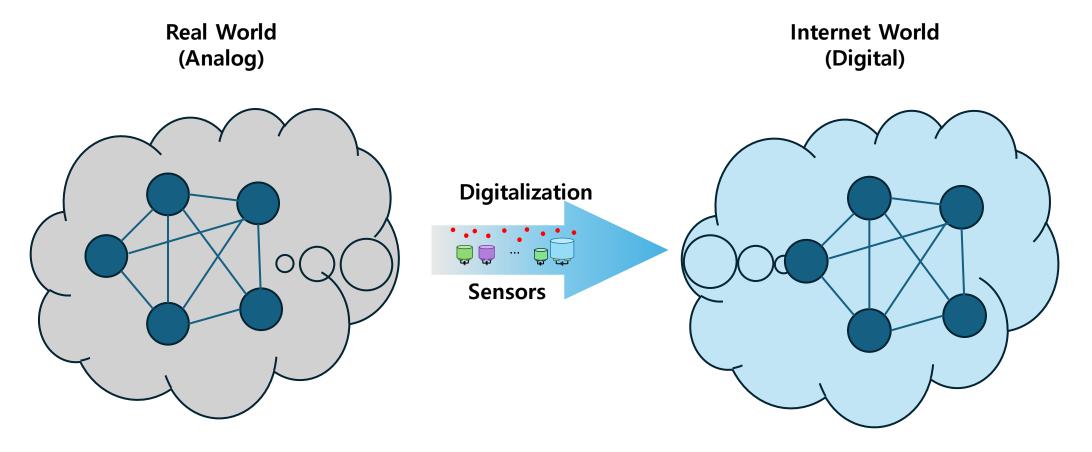
Internet of Things (IOT)



· Things : 사람, 동물, 식물, 곤충

• Communication : 언어, 페르몬, 몸짓

• Flatform : 조직, 가정, 직장, 정부, 커뮤니티

• Things : 아두이노, 라즈베리파이, PC, 모바일, 클라우드

• Communication : 통신 프로토콜, 프로그램 언어

Flatform : Web, App

		Docker		Blynk	k R	eact-Nativ	e	
	Linux	Ma	ic OS	Арр І	nventor			
OTA		Windows	Ten	sorflo)W	EDA		
Grafana	Python	T' C		mongoDB		Xgl	boost	
	ССП	TimeSeri			•	MySQL	Azure	
	SSH		Arduino) L	Jbuntu	CNN		RFID
Raspbe	rry pi	Numpy	RedHa	at	Ī		GCP	
ESP32-Cam	Centos		andom Fore		t	lightGBM	W	ebSocket
	Pandas			et	Ionic	ic Framework		
Prometheus	Next.js		elte		HTML/C	SS	Jupyter	Notebook
RS232/RS	3405	Conta RNN	ainer S	SVM		hyperCLC)VA X	Matlab
LoRa	MQTT	Django	JAVA		C# MFC	N	ode-red	
	Esp8266	, ,	GNN	P	PostgreS	SQL	Mod	Bus RTU
LTE	Flutter	Oracle	FastAP	1	FTP	LLM)	KML	ResNet
Ble		Esp32	Go Read	ct C	OpenAP	l JSON	T(CP/IP
G	ithub Fla	ask C++/	,_# N	/latplc	otlib	Jav	vascript	
	tGPT	Torch NLP						

강의 중요 용어 분류

MCU

- Raspberry Pi
- Arduino
- Esp8266
- Esp32
- Esp32-CAM

OS

- Linux
 - RedHat
 - Ubuntu
 - Centos
- Docker
 - Container
- Windows
 - MFC (C#)
 - .Net
- Mac OS

Communication Protocol

- MQTT
- WIFI
- BLE
- LoRa
- RFID
- LTE
- RS232/RS485
- Modbus
- OTA
- TCP/IP
- SSH
- WebSocket
- FTP
- UDP

Data Format

- TimeSeries
- JSON
- XML

Program Language

- Python
- JAVA
- Javascript
- C#/C++
- Matlab
- GO
- Lust
- SQL

Cloud Computing

- AWS
- Azure
- GCP
- hyperCLOVA X

Database Framework

- mongoDB
- PostgreSQL
- MySQL
- Oracle

Web Framework

- Django
- FastAPI
- Flask
- React
- Next.js
- SvelteNode-Red
- HTML/CSS

Web Realtime Monitoring

- Grafana
- Prometheus

App Framework

- Blynk
- App Inventor
- React-Native
- Ionic

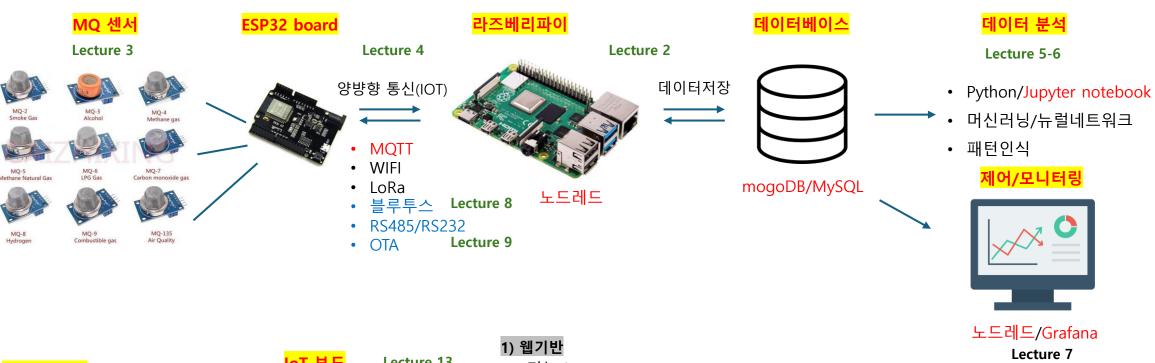
Al/Machine Learning

- SVM
- Random Forest
- lightGBM
- Xgboost
- CNN
- RNN
- GNN
- ResNet
- TensorFlow
- Torch
- NLP
- LLM
- ChatGPT
- OpenAPI

EDA

- Pandas
- Numpy
- Matplotlib

강의 Flow & Plan



Esp32-Cam



IoT 보드

Lecture 13



• 리눅스

• 플랫폼 : React, Next.js, Flask, Django, HTML/CSS, 노드레드

2) 모바일 기반

Lecture 10

• 안드로이드, iOS

• 플랫폼: Flutter, React-Native, App Inventor, Blynk, Ionic

3) PC 기반

Lecture 11

• 위도우

• 플랫폼 : C#, 닷넷

4) IOT 클라우드 (AWS)

Lecture 12

팀프로젝터 Team1, Team2

Lecture 15 - 16

• 보안적용

조편성 그룹 1 그룹 2

Captain 이솔파 하주찬

임인제 김민우

강륜 김종원

박상돈 지민정

카톡방 만들기