



YoungminKim

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Education

Bachelor of Science degree expected in
Computer Science and Engineering
Incheon National University, Incheon

Mar 2016 – Present

Bachelor of Arts degree expected in
Economics
Incheon National University, Incheon

Mar 2016 – Present

Internships

Advanced Institute of Convergence
Technology
Computer Vision & AI Lab, Suwon

Sep 2020 – Aug 2021

- Computer Vision Algorithm Development using Pytorch, YOLOv5 Algorithm Tuning
- Analysis of Sensor Data
- UI Development using PyQt5

RAISE (Real-time Artificial Intelligence
Systems Engineering) Lab
Computer Science in INU, Incheon

Dec 2021 – Present

- Research of Real Time Object Detection & Multi Object Tracking

Extracurricular activities

BOAZ 16th member and operating
group member

Jan 2021 – Jan 2022

Bigdata Alliance Club, Seoul

- Image Generation Paper Review& Application (GAN, CycleGAN)
- Practice Data Analysis with Kaggle Competition
- Project to translate and generate sign language videos.

Public Big-Data Youth Internship(2nd)
NIA, Seoul

Jul 2020 – Sep 2020

- Conducted project regarding Standard Analysis Model using python, QGIS, R
- Conducted project Selection the Optimum Location of Cheongju Roundabout in South Korea

Personal details

Name

Youngmin Kim

Email address

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Phone number

010-8445-4623

Date of birth

December 14th, 1997

Github 

github.com/winston1214

Tech Blog 

bigdata-analyst.tistory.com

Skills

Python

Pytorch

Ubuntu

Git

Nvidia mini PC

Certificates

ADsP

SQLD

Experience of Projects

Artistic Sentence Sep 2021 – May 2022

Capstone Design in Incheon National University

- Develop applications that generate images from text (using CLIP and VQGAN)
- Development of an Image-based recommendation system

Korean Sign–Language Translation Aug 2021 – Jun 2022

BOAZ

- Proposed a Sign–Language Translation model using Key–point based Seq2Seq Model
- Proposed a video frame augmentation method to increase the performance of the Sign–Language Translation Model

Smart Eco Service – Object Counting Mar 2021 – Jun 2022

Black Stone BelleForest

- Object Detection using YOLOv5 and Object Tracking using DeepSort and Centroid Tracking Algorithm
- Applied Algorithm on Jetson Nano and linked management server

AI learning data for search video of survivors using drones Feb 2021 – Apr 2021

NIA

- Managing the building of survivor datasets
Survivors Detection in 4K images using YOLOv5
Development of UI–Service

High–performance and high–durable tires for light rail and safety –enhancing health Developing monitoring technology Nov 2020 – Dec 2021

KAIA

- Anomaly Detection & Impact Analysis in Tire Health Sensor Data

Integration of algorithms considering two–way driving of self–driving tram Sep 2020 – Dec 2020

KRRI

- Development of Pedestrian Progress Direction Prediction and TTC prediction Algorithm using YOLOv5 and Optical Flow Inter–working with algorithms and ROS
- Development of GPS estimation technology for trams

Patents

- Apparatus and Method for Analyzing data, Apparatus, and Method for Predicting Abnormality, Computer program
- Electronic Apparatus and Method for Searching Distress, Unnamed Aerial Vehicle, Computer program
- Method and Apparatus for Avoiding Collision between Vehicle and Object, Computer Program

Paper

Keypoint based Sign Language Translation without Glosses Computer Vision and Image Understanding(CVIU), Decision in Process - Youngmin Kim , Minji Kwak, Dain Lee, Yeongeun Kim, Hyeongboo Baek	2022
YOLOv5와 모션벡터를 활용한 트램-보행자 충돌 예측 방법 연구 KIPS, Published - 김영민 , 안현욱, 전희균, 김진평, 장규진, 황현철	2021
딥러닝과 Optical Flow를 활용한 보행자 사고 방지 모델 KCC2021-Best Paper, Published - 김영민 , 장규진, 배현재, 김영남, 김진평	2021
Optical Flow 추정 기술 및 최신 동향 KIPS Special Edition - 김영민 , 안현욱, 김진평	2021
딥러닝 기반 교량 구조물 다중 손상유형 탐지 시스템 KCC2021, Published - 김영남, 장규진, 김영민 , 배현재, 김진평	2021
드론과 딥러닝을 활용한 조난자 탐지 모델 KCC2021, Published - 배현재, 김영민 , 김영남, 장규진, 김진평	2021

Contest

AI Competition for Crop Disease Diagnosis due to Changes in Agricultural Environment (Dacon)	19/344 Top 5.5%	2022
<ul style="list-style-type: none">• Develop a disease diagnosis AI model using a combination model of bi-GRU and Regnet		
AI HUB IDEA Challenge Competition Top Prize		2021
<ul style="list-style-type: none">• A Smart ATM model that can prevent voice phishing and face-to-face fraud damage in ATMs• Object detection was performed using YOLO, and facial expression recognition was performed using Efficient-Net		
KCC 2021 Undergraduate Paper Competition in Smart City Section	Top Prize	2021
<ul style="list-style-type: none">• Pedestrian Accident Prevention Model Using Deep Learning and Optical Flow (First Author)		
KED 2021 Industrial Innovation Big Data Platform Competition	Excellent Prize	2021
<ul style="list-style-type: none">• Standard industry code classification (based on BERT)		