



YOUNGMINKIM

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Education

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

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

YOLOv5와 모션벡터를 활용한 트램-보행자 충돌 예측 방법 연구 KIPS, Published - 김영민 , 안현욱, 전희균, 김진평, 안현욱, 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
사회적 거리 두기를 위한 스테레오 영상과 스켈레톤 정보기반 객체 간 거리 추정 방법 KCC2021, Published - 장규진, 배현재, 김영민 , 김영남, 김진평	2021

Contest

AI HUB IDEA Challenge Competition Top Prize <ul style="list-style-type: none">• A Smart ATM model that can prevent voice phishing face-to-face fraud damage in ATMs• Object detection was performed using YOLO, and facial expression recognition was performed using Efficient-Net	2021
KCC 2021 Undergraduate Paper Competition in Smart City Section Top Prize <ul style="list-style-type: none">• Pedestrian Accident Prevention Model Using Deep Learning and Optical Flow (First Author)	2021
KED 2021 Industrial Innovation Big Data Platform Competition Excellent Prize <ul style="list-style-type: none">• Standard industry code classification (based BERT)	2021
