

YoungminKim

winston1214@naver.com

J 010-8445-4623

Education

Bachelor of Science degree expected in Computer Science and Engineering

Incheon National University, Incheon

Bachelor of Arts degree expected in Economics

Incheon National University, Incheon

Mar 2016 - Present

Mar 2016 - Present

Internships

Advanced Institute of Convergence Technology

Computer Vision & Al 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

Dec 2021 - Present

Computer Science in INU, Incheon

 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)

Jul 2020 - Sep 2020

NIA, Seoul

- •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

winston1214@naver.com

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

Paper A 2-Stage Model for Vehicle Class and Orientation Detection 2022 with Photo-Realistic Image Generation IEEE BigData 2022 Workshop, Accepted - Youngmin Kim, Donghwa Kang, Hyeongboo Baek Keypoint based Sign Language Translation without Glosses 2022 Computer Vision and Image Understanding(CVIU), Under Review - Youngmin Kim, Minji Kwak, Dain Lee, Yeongeun Kim, Hyeongboo Baek YOLOv5와 모션벡터를 활용한 트램-보행자 충돌 예측 방법연구 2021 KIPS, Published - 김영민, 안현욱, 전희균, 김진평, 장규진,황현철 딥러닝과 Optical Flow를 활용한 보행자 사고 방지모델 2021 KCC2021-Best Paper, Published - 김영민, 장규진, 배현재, 김영남, 김진평 Optical Flow 추정 기술 및 최신 동향 2021 KIPS Special Edition - 김영민, 안현욱, 김진평 딥러닝 기반 교량 구조물 다중 손상유형 탐지시스템 2021 KCC2021, Published - 김영남, 장규진, **김영민**, 배현재, 김진평 드론과 딥러닝을 활용한 조난자 탐지 모델 2021 KCC2021, Published - 배현재, **김영민**, 김영남, 장규진, 김진평 Contest Al Competition for Crop Disease Diagnosis due to Changes in 19/344 Top 5.5% 2022 Agricultural Environment (Dacon) • Develop a disease diagnosis Al model using a combination model of bi-GRU and Regnet AI HUB IDEA Challenge Competition Top Prize 2021 A Smart ATM model that can prevent voice phishing and face-to-face fraud damage in ATMs

Develop a disease diagnosis Al model using a combination model of bi-GRU and Regnet
 Al HUB IDEA Challenge Competition Top Prize
 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
 Pedestrian Accident Prevention Model Using Deep Learning and Optical Flow (First Author)
 KED 2021 Industrial Innovation Big Data Platform Competition Excellent Prize
 Standard industry code classification (based on BERT)

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

Al 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