Wonboem Jang

The Researcher dreaming of a world where everyone uses AI

Name: Wonbeom Jang
Location: Seoul, South Korea
Github: github.com/wonbeomjang
Homepage: https://www.wonbeomjang.kr/
Email: jtiger958@gmail.com
Tel: 010-3793-7352

Skill Set —

Machine Learning	Pytorch Tensorflow
Backend	Django MySQL
Programming Language	Python C++
Language	Korean English
Etc.	Git Wandb AWS Docker
Graduation dates (BS)	02/23

Introduce ——

I am an undergraduate researcher who studied at CVML Lab at Chung-Ang University. I like practical research such as Efficient AI, Edge AI. My advantage is quick study and implementation skill ability. I can quickly read many papers, export key idea of those paper and verify my hypothesis. I'm interested in open source, so open my project and get over 300 stars. I also contribute on other opensource projects.

Career ——

2023.01 – 2023.08 : Research Intern in Neurocle
- Make OCR auto-labeler
- Improve Character-based OCR model (to be newly add on Neuro-T 4.0 or 4.1)
  - Improve accuracy 4%p and decrease training time to one third
- Plan and execute the performance experiment of transfer learning (to be newly add on Neuro-T 4.0)
- Technical check of smart-labeling on object detection and semantic segmentation (to be newly add on Neuro-T 4.0)
- Build up the Neurocle research platforms.
- Technical check of single image super resolution

2018.06 – 2021.08: Undergraduate Researcher at CVML Lab, Chung-Ang University
- Support and performance check of DPSGAN experiments.
- Support Lightweight MDADN Experiment.

Paper ——

2021

Deep-plane sweep generative adversarial network for consistent multi-view depth estimation. Mach. Vis. Appl. 33(1): 5 (2022); 2nd author
- Collect evaluation data and convert enterprise-provided data.
- Verify and analysis the DPSGAN.
- Presenting the ideas of the model structure.

Awards ——

2021

Military Disclosure SW Online Hackathon: Navy Chief of Staff Award; Incentive Award

2019

Activity ——

2023.03 DAMO-YOLO; Open source contribution
- tinyvision/DAMO-YOLO/pull/86

2019.02 - 2021.02: administrator of prography
- Perform the role of PM
- Attract Hyundai Asan Nanum Foundation Investment

Education ——

2018.03 – 2024.02: Department of Software, Chung-Ang University; BS (GPA 4.41 / 4.5)

Toy Project ——

2022

Gripp: Climbing Video Classification and Automatic Editor - cannot-climb/gripp-deep
- Design video editing and classification algorithm (object detection + pose estimation)
- Analyze the problem of model and data and derive solutions. (Improve recall 2%p, precision 1%p)
- Collect and evaluate data.
- Creating a model serving server (Django)

2021

Canary: Automatic mosaic for military photographic use - AI_APP_WEB_Canary_Canary_2021, yolov5-knowledge-distillation
- Implement knowledge distillation on YOLOv5.
- Analyze the problem of model and data and derive solutions. (Improve mAR 4.3%p)
- Build an administrator server for log collection and deploying the latest models.
- Open source code of YOLOv5 knowledge distillation (Star 75).

2019

ZipYak: Pharmaceutical Information Service for the Visually Impaired by using a Camera – Summary of Project
- Design a medicine box recognition algorithm through a camera.
- Conduct user interviews and design user-friendly mobile application.

Photo Filter Application – ESRGAN, cyclegan, neural-style-transfer-pytorch
- Implement Style transfer using CNN, CycleGAN, ESRGAN
- Open the code of ESRGAN (Star 83)

2018

Hair segmentation for mobile device - HairMatteNet
- Implement and improve HairMatteNet
- Improve performance and reduce inference time through backbone changes and quantization.
- Improve IOU 0.75%p, inference time 42.9% and decrease model size 56%.
- Apply tensorrt to the project
- Open the code of HairMatteNet (Star 136)