HyeongChan Kim

http://kozistr.tech

EDUCATION Korea University of Technology and Education (KOREATECH) Mar 2016 –

CHALLENGES & AWARDS

6th place, NAVER NLP Challenge, SRL Task, 2018

4th / 13th place, **NAVER A.I Hackathon**, 2018

Final Round (Digital Forensic), A.I R&D Challenge, 2018.

2nd place (Demon), **Boot2Root** CTF, 2018

2nd place (Demon), WhiteHat League 1, 2017

3nd place (SeoulWesterns), Harekaze CTF, 2017

9th place (3rd price, A book as award), **TF-KR MNIST Challenge**, 2017

Kaggle Challenges

LB Top 3%, Kannada MNIST Challenge (28 / 1214), 2019.

LB Top 4%, MNIST Challenge, 2017.

LB Top 5%, Titanic Challenge, 2017.

LB Top 12%, Plant Seedlings Classification, 2017.

LB Top 25%, Invasive Species Monitoring, 2017.

CTFs & Conferences

Conference Staff, POC, 2016

Staff, Challenge Maker, HackingCamp 15, 2017

Staff, Challenge Maker, CodeGate OpenCTF, 2017

Staff, Challenge Maker, HackingCamp 16, 2017

Challenge Maker, POX CTF, 2017

Challenge Maker, KID CTF, 2017

Staff, Belluminar CTF, 2017

Staff, Challenge Maker, HackingCamp 17, 2018

PUBLICATIONS

- [2] <u>Kim</u> et al, CNN Architecture predicting Movie Rating. Jan. 2019.
- [1] zer0day, Windows Anti-Debugging Techniques (CodeEngn Archive) Sep. 2016.

INDUSTRY

EXPERIENCE

Machine Learning Engineer

- Developed the card & bank account transaction category classification models, designed light weight purpose for the low latency.
- Working as a full-time.

VoyagerX, Seoul, South Korea

Jan 2019 - Sep 2019

Machine Learning Engineer

- Developing a robust Speaker Verification model and etc for recognizing and diarizing the arbitrary speaker recorded from the noisy environment.
- Developing a hair image semantic segmentation / image in-paint / i2i domain transfer model for swapping hair domain naturally.
- Working as an intern.

ELCID, Pangyo, Korea

Jun 2016 - Aug 2016

Penetration Test

- Tested a network firewall and anti-virus product.
- Worked as a part-time job.

OUT SOURCING

Korea University Course Information Web Parsing, ITL July 2017 – Mar 2018

RESEARCH EXPERIENCE

Heterogeneous Parallel Computing Lab, Cheonan, Korea

Sep 2018 - Dec 2018

Undergraduate Research

• Wrote a paper about improved TextCNN model for predicting movie rate.

TALKS

NAVER NLP Workshop 2018, Pangyo, Korea

Dec 2018

SRL Task, challenging without any in-domain knowledge

PROJECTS

Generative

Awesome Generative Adversarial Networks (Stars 450+)

July 2017 –

Implemented lots of Generative Adversarial Networks in tensorflow. Novelties of this project are trying to implement lots of GANs which some of them are not released or in tensorflow based on the paper with some tweaks.

121 Translation

Improved Content Disentanglement

Sep 2019

Re-implement / tune 'Content Disentanglement' paper in pytorch.

Speech Synthesis	Tacotron	Jan 2019
	network' in libtorch++.	
	I contributed to this project by implementing `feature extractor` and `ne	eural
	Hearthstone simulator using C++ w/ some R.L.	1
R.L	Rosseta Stone (Stars 380+)	Sep 2018-
	Implemented a text category classifier in tensorflow	
	Text Tagging	Dec 2018
	p.ooc di. i.i.p.o.cod i o.co. ii iiiodoi (iiiii ot di. 2019)	
NLP	Improved TextCNN (Stars 4+) Implemented an improved TextCNN model (Kim et al. 2019)	Dec 2018
AU D		D 2012
	Implemented an ESRGAN model in tensorflow.	
	Enhanced Super Resolution GAN (Stars 10+)	Jun 2019
	Implemented a RCAN model in tensorflow.	
Super Resolution	Deep Residual Channel Attention Network (Stars 30+)	Sep 2018
	Implemented RAdam Optimizer (Liu et al. 2019) w/ some tweaks in ten	SOTTIOW.
	RAdam Optimizer (Stars 2+)	Sep 2019
- P	Implemented AdaBound Optimizer (Luo et al. 2019) w/ some tweaks in	
Optimizer	AdaBound Optimizer (Stars 35+)	Jan 2019
	Implemented lots of image semantic segmentation and ordered the pa	pers.
Segmentation	Awesome Segmentation (Stars 50+)	Aug 2018
	Implemented a neural image style transfer.	
Style Transfer	Neural Image Style Transfer	Mar 2018
image inpairting	Re-implement / tune 'Edge-Connect' paper in pytorch.	OCC 2013
Image Inpainting	Improved Edge-Connect	Oct 2019

Implemented a google tacotron speech synthesis in tensorflow.