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Personal Details

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Interests

Game Theory & Machine Learning

- Training Dynamics of Neural Networks
- Theoretical Understanding of Multi-Agent Learning

Education

- Seoul National University (Seoul)
 - o M.S. in Artificial Intelligence, Sep 2020 Aug 2022 (expected)
- Hanyang University (Seoul)
 - o B.E. in Software, Mar 2013 Aug 2020
 - o B.S. in Mathematics, Aug 2014 Aug 2020

Publications

- A Neural Dicihlet Process Mixture Model for Task-Free Continual Learning Soochan Lee, Junsoo Ha, Dongsu Zhang, Gunhee Kim International Conference on Learning Representations (ICLR), 2020.
- Harmonizing Maximum Likelihood with GANs for Multimodal Conditional Generation Soochan Lee, Junsoo Ha, Gunhee Kim International Conference on Learning Representations (ICLR), 2019.

Research Experience

- SNU Vision & Learning Lab Seoul, Korea. Sep 2020 Now Graduate Research Assistant
- SNU Vision & Learning Lab Seoul, Korea. Dec 2017 Aug 2020
 Undergraduate Research Intern

Work Experience

- Buzzni Seoul, Korea. Mar 2017 July 2017
 Backend Software Engineer
- Geopia Seoul, Korea. Apr 2015 Feb 2017 (Substitue of Mandatory Military Service)
 Full-Stack Software Developer
- Nexol System Inc. Seoul, Korea. Jan 2015 Mar 2015

Software Development Intern

LG Electronics Inc. Seoul, Korea. Jul 2014 - Aug 2014
 Software Delveopment Intern

Honors & Awards

- Silver Prize 25th Samsung Human-Tech Paper Award, 2019
- Distinguished Service Award Hanyang University, 2019

Skills

- Machine Learning:
 - PyTorch, TensorFlow, Keras
 - o NumPy, SciPy, Scikit-Learn
- Backend | Python:
 - o Django, Flask, SQLAlchemy, Celery
 - o asyncio, Crossbar, Autobahn,
- Frontend | JavaScript:
 - o Backbone, React, Redux, Electron, Autobahn
 - o ES6/7, Webpack, Immutable
- Database:
 - MySQL, PostgreSQL, SQLite
 - o Redis, RabbitMQ
- DevOps:
 - Bash, Git, GNU Make, Docker
 - o Travis CI, Coveralls, Fabric, AWS, Nginx

Paper Implementations

- pytorch-deep-generative-replay: Continual Learning with Deep Generative Replay, NIPS 2017[link]
- <u>pytorch-wgan-gp</u>: Improved Training of Wasserstein GANs, arxiv:1704.00028[link]
- <u>pytorch-splitnet</u>: SplitNet: Learning to Semantically Split Deep Networks for Parameter Reduction and Model Parallelization, ICML 2017 [link]
- pytorch-ntm: Neural Turing Machines, arxiv:1410.5401 [link]
- pytorch-memn2n: End-To-End Memory Networks, NIPS 2015[link]
- pytorch-ewc: Overcoming Catastrophic Forgetting, PNAS 2017 [link]
- pytorch-vae: Auto-Encoding Variational Bayes, arxiv:1312.6114 [link]
- pytorch-wrn: Wide Residual Networks, BMVC 2016[link]
- <u>tensorflow-infogan</u>: InfoGAN: Interpretable Representation Learning by Information Maximizing Generative Adversarial Nets, NIPS 2016 [link]
- tensorflow-wgan: Wasserstein GAN, arxiv:1701:07875 [link]
- tensorflow-dcgan: Unsupervised Representation Learning with Deep Convolutional Generative Adversarial Networks, ICLR 2016 [link]

Open Sources

- django-record: Records snapshot of Django model instances on their updates
- backbone.csrf: Configure X-CSRFToken header for all Backbone sync requests
- dotfiles: UNIX philosophy compliant environment files
- news: Asynchronous web subscription engine written in asnycio and aiohttp