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Insu Jeon

Seoul, South Korea

EDUCATION

SEOUL NATIONAL UNIVERSITY (SNU), SEOUL, KOREA SEP 2012 – AUG 2023
- Ph.D. in Computer Science, specializing in Machine Learning (ML) and Artificial Intelligence (AI) (GPA: 3.95 / 4.3)

UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA), USA SEP 2009 – MAR 2012
- Bachelor of Science in Computer Science, and Minor in Statistics (GPA: 3.38 / 4.0)

WORK EXPERIENCES

AI RESEARCHER, VISION AND LEARNING LABORATORY, SNU MAR 2017 – PRESENT
- Conducted advanced research in Generative models, Natural Language Processing (NLP), and Bayesian meta-learning.

AI RESEARCHER, EVER-DOUBLING LLC. JUN 2021 – DEC 2021
- Participated in AI Grand Challenge; developed a math problem-solving AI engine using a General Language Model.

CHIEF TECHNOLOGY OFFICER, RIPPLEAI FEB 2018 – DEC 2019
- Managed a team of 9 developers and engineers; developed an Instagram comment-generating bot.

MACHINE LEARNING RESEARCHER, ARTIFICIAL INTELLIGENCE LABORATORY, SNU SEP 2012 – SEP 2016
- Developed ML algorithms for computer vision tasks such as defect detection, super-resolution, and registration.

PROJECTS

UNSUPERVISED LEARNING-BASED DATA GENERATION RESEARCH, AGENCY FOR DEFENSE DEVELOPMENT (ADD) JUN 2022 – PRESENT
- Improved military object recognition performance by 10% via Generative model-based data augmentation.

NEURAL PROCESSING SYSTEM RESEARCH, SAMSUNG ADVANCED INSTITUTE OF TECHNOLOGY MAR 2018 – SEP 2019
- Contributed to Samsung's core AI vision technology, and organized group activities for researchers.

COMPUTER VISION PROJECTS, SAMSUNG DEVICE SOLUTIONS INSTITUTE MAR 2013 – SEP 2017
- Optimized defect-monitoring systems in semiconductor display (SEM/OLED) production lines.

PUBLISHED PAPERS

FEDERATED LEARNING WITH META-VARIATIONAL DROPOUT UNDER REVIEW
- Presented at a high-rank ML conference, Neural Information Processing Systems (NeurIPS) 2023.

NEURAL VARIATIONAL DROPOUT PROCESSES APR 2022
- Published at a high-rank ML International Conference on Learning Representation (ICLR) 2022.

IB-GAN: DISENTANGLED REPRESENTATION LEARNING WITH INFORMATION BOTTLENECK GENERATIVE ADVERSARIAL NETWORKS MAY 2021
- Published at a high-rank AI conference, Association for the Advancement of Artificial Intelligence (AAAI) 2021.

BLIND IMAGE DECONVOLUTION USING STUDENT'S-T PRIOR WITH OVERLAPPING GROUP SPARSITY MAR 2017
- Published at a high-rank International Conference on Acoustic, Speech, and Signal Processing (ICASSP) 2017.

SPATIAL KERNEL BANDWIDTH ESTIMATION IN BACKGROUND MODELING SEP 2016
- Published at International Conference on Machine Vision (ICMV) 2016.

AWARDS

1TH KBIG-CONTEST – NATIONAL INFORMATION SOCIETY AGENCY DEC 2013
- Developed Twitter hot issue forecaster using NLP algorithm and placed an encouragement award.

TEACHING EXPERIENCE

SPECIAL LECTURES ON BAYESIAN DATA ANALYSIS AND STATISTICAL INFERENCE – GSSHOP MAY 2019
- Delivered lectures on Bayesian theory and statistical inference techniques for commercial data analysis.

PRACTICAL GUIDE TO DEEP LEARNING – KOREA BANKING INSTITUTE MAR 2019
- Conducted lectures on Deep Learning and Natural Language Processing.

INTRODUCTION TO GENERATIVE MODEL WITH PYTORCH – FASTCAMPUS SEP 2017 – SEP 2018
- Taught courses on Deep Generative model and Bayesian Deep Learning.

SPECIAL ISSUES IN MACHINE LEARNING AND DEEP LEARNING – SEOKYONG UNIVERSITY JUN 2017
- Performed lectures on Modern developments in Machine Learning, Deep Learning, and Artificial Intelligence.

PREREQUISITE COURSES FOR ARTIFICIAL INTELLIGENCE – SNU 4TH INDUSTRIAL REVOLUTION ACADEMY MAY 2017
- Prerequisite courses for understanding Artificial Intelligence - Linear Algebra, Probability, and Statistics.

TECHNICAL SKILLS

COMPUTER SKILLS:
- Python, C/C++, Java, JavaScript, Objective C, OpenMP, CUDA, HTML, Bash, Windows, Mac OS, Linux

LANGUAGES:
- Korean (native), English (proficient)