Seungwon Kim
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Education

- **Georgia Institute of Technology** — Atlanta, GA
  Master of Science in Computer Science; GPA: 4.0/4.0 — *Jan. 2019 – Dec. 2020*
- **Kyungpook National University** — Daegu, South Korea
  Bachelor of Science in Electronic Engineering; GPA: 3.3/4.0 — *Mar. 2009 – Feb. 2016*

Publication

- **Revisiting Pretraining with Adapters**
  Seungwon Kim, Alex Shum, Nathan Susanj, Jonathan Hilgart.
  Accepted at ACL 2021 Representation Learning for NLP Workshop. **Best Paper Award**
- **Using Pre-Trained Transformer for Better Lay Summarization**
  Seungwon Kim
  Accepted at EMNLP 2020 Scholarly Document Processing Workshop

Experience

- **Incheon International Airport Corporation** — Incheon, South Korea
  Senior Electrical Engineer — *Jan 2020 - Present*
  - **SMGCS**: Maintained the airport's SMGCS (Surface Movement Guidance and Control System) for safety compliance and operational efficiency. Provided technical support to SMGCS users, including air traffic controllers, to address any operational issues or queries. Performed regular system assessments and troubleshooting to enhance reliability.
  - **VDGS**: Maintained Visual Docking Guidance Systems (VDGS) for precise and safe aircraft parking and departure. Conducted system inspections, troubleshooting, and repair of VDGS equipment and provided technical support to aircraft operators and ground handling personnel.
- **Incheon International Airport Corporation** — Incheon, South Korea
  Electrical Engineer — *Dec 2015 - Dec 2019*
  - **SCADA**: Managed Supervisory Control and Data Acquisition (SCADA) system. Designed SCADA HMI, aggregated electrical consumption data, analyzed usage trends. Designed and implemented moving average model in combination with linear regression to forecast daily peak load and developed strategy to reduce airport costs through peak load forecast, contributing to energy conservation efforts and cost reduction.

Projects

- **Computational Linguistics Lay Summary Challenge 2020** — May - Aug 2020
  https://competitions.codalab.org/competitions/25516
  - Designed and implemented lay summarization models for scholarly documents using Pytorch, with a focus on extractive, abstractive summarization and proposed readability metrics (2nd rank out of 8).
- **Neurips 2019 Reproducibility Challenge** — Nov - Dec 2019
  https://github.com/seungwon1/BEAR-QL — *Report: https://openreview.net/forum?id=S1lXO6cf6S*
  - Implemented BEAR (Off-policy Q-Learning via Bootstrapping Error Reduction, Kumar et, al. 2019) algorithms from scratch using Tensorflow. Reproduced and performed all the experiments in Kumar et, al. 2019 and wrote the reproducibility report for the comparison.

Programming Skills

Languages: Python, Java, BASH
Frameworks: Tensorflow, Pytorch
Competitive Programming
1. Advanced to Meta Hacker Cup 2023 Round 2: Rank 743 out of 20,000+
2. Rated Expert on Codeforces