EunKyeong Lee

AI Researcher - Data Scientist - Statistician

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Work Experience

Ichrogene, Gyeonggi, S.Korea - *Bioinformatics R&D researcher*

April. 2018 - Nov. 2018

- Analyzed data for genetic disease through rsID screening
- Assisted designing multiple risk calculation models

Kyonggi Univ, Gyeonggi, S.Korea - *Applied Statistics TA*

May.2019 - Feb.2020

- Provided course counseling for students' academic careers
- Supported statistical analysis for research papers on different majors
- Performed as an assistant in the statistical programming lab

Education

Kyonggi Univ, Gyeonggi, S.Korea- *B.S in Applied statistics*

May.2015 - Feb.2019

Univ of Seoul, Seoul, S.Korea *M.S in Urban Big Data Convergence.*

Sep.2020 - Present

- Intelligent Big Data Lab

Teaching

elice - R Hands-on workbook instructor

Oct. 2018 - Dec. 2018

- Basic knowledge on R, data analysis and visualization

elice - Analyze data starting with R instructor

Oct. 2018 - Dec. 2018

- Basic knowledge for text pre-processing, mining, crawling and visualization

elice - Analyze data learned from R packages instructor

Oct. 2018 - Dec. 2018

- Methods of utilizing “tibble, plyr, dplyr, reshape, ggplot2, tidyr” packages

elice - Learning Basic Statistics with Python instructor

Apr.2019 - July.2019

- Statistics with Python basics

Univ of Seoul - Urban Big Data Application Seminar TA

Sep. 2020 - Dec. 2020

- Object detection, augmentation, RNN, LSTM, attention method
- How to use Tensorflow for image Deep Learning

Univ of Seoul - Big Data Advanced Mathematics TA

Mar.2021 - June.2021

- Linear algebra for deep learning

Project

A Study on the Promotion of Seoul-type Living Tourism Based on Big Data - Research Assistant

Mar.2020 - Nov.2020

- Evaluated capabilities of life tourism in “administrative dong” using a cognitive diagnosis model
- Assisted in developing a recommendation system for living tourism resources

Environmental Noise AI: Establishment of road pavement monitoring and maintenance systems - Research assistant

July.2020 - Dec.2020

- Correlated and analyzed images of tire/surface friction noise/packaging

- Established and evaluated image classification models of tire/surface friction noise and packaging using artificial neural networks, random forests, etc.

Development of prognostic prediction model based on Korean thyroid cancer patient profiling and generalization mixing model - Research assistant

Mar.2021 - Present

- Established and evaluated classification models utilizing thyroid cancer patient data
- Assisted in the development of multiple prognostic models

A Multilateral Review of Social Inequality in Modern Urban Society - Research assistant

May.2021 - Present

- Established and evaluated a clustering model utilizing the inequality data in modern urban society
- Analyzed spatial data using GIS tools (Qgis, ArcGis)
- Assisted in the development of indicators for the measurement of social inequality in modern urban society

Development of technology commercialization core terms extraction technology through natural language processing based on machine learning - Research assistant

June.2021 - Present

- Performed the Bert and FastTect model Fine-tuning for technology commercialization core terminology extraction development

Awards

1st, On-Campus Data Analysis Competition at Kyunggi University

2017

- Discovery and analysis for inventory of policy efficiency related to levies utilizing public data;
- Improved efficiency through establishing regional policies by clustering regional differences using methods such as Clustering, PCA, Correlation Analysis, etc.;
- Prediction of charges through Statistical Leaning, such as Random Forest and Logistic Regression