SeungHeon Doh (도승헌)

Data Scientist | *Department of Culture Technology* | *KAIST*
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Education

Korea Advanced Institute of Science and Technology (KAIST), Korea
MSc. in Graduate School of Culture Technology | 2019.02 ~ Current
Music and Audio Computing Lab (http://mac.kaist.ac.kr/)
Advisor : Juhan Nam

- Core course : Musical Applications of Machine Learning (음악의 머신러닝적 활용), Cognitive Science of Music (음악의 인지과학)

Ulsan National Institute of Science and Technology (UNIST), Korea
B.S. in School of Business administration & Industrial Design | GPA : 3.46/4.3

- Specialization : DataMining and UX research | 2014.03 ~ 2019.02
- Academic Performance Scholarship Recipient for every semester
- Core course : Data Mining(데이터마이닝-기계학습), Database(데이터베이스), Customer Behavior (소비자행동론), UX research methodology (UX 연구방법론), Contextual Design (사용자 맥락 디자인- UCD 심화), Interactive Technology (인터렉티브 기술)

Research Interests

Music Auto-tagging, Zero-shot Learning, Music Recommend System
(Sub) Data Visualization, Music Cognition

Experience

Core-dot Today, Ulsan, Korea | 2018.06 ~ 2018.12
Researcher - Data Scientist
Notify Governments Documents to Public Using Artificial Intelligence

- The project is funded by Korea Governments, KOITA (한국산업기술진흥협회)
- Developed Relevant Topic tagging algorithm in Government Documents using LDA
- Developed Relevant Industry tagging algorithm in Government Documents using Machine learning.
- Design Website UX / UI (http://gb.core.today/ - Work in Process)

Alpha Square (Fintech Start-up), Ulsan, Korea | 2016.12 ~ 2018.05
UX Team manager - User data analysis
Developed Stock management Web platform for individual trader

- The project is funded by Korea Governments, CCEI (창조경제혁신센터)
- Contextual User research and behavior modelling using Affinity diagram (Sample Number: 20)
- Usability testing based on Efficiency, Effectiveness, Satisfaction (Time, Error, Task number)
- Design Website UX / UI / GUI (https://alphasquare.co.kr/)

Emotion Lab, Dept. of Industrial Design UNIST, Ulsan, Korea | 2016.03 ~ 2016.11
UX Research Intern,
UX modeling for smart watch user

- User Research about Stressful condition
- Context recognition using Smart watch sensor

Desis Lab, Dept. of Industrial Design UNIST, Ulsan, Korea | 2015.03 ~ 2015.09
UX Research Intern,
Product-Service-System Design for Disabled and Children

- User and stakeholder research using Interview and Observation
- Behavior modelling using Affinity diagram and Customer journey

Recognition

NAVER & Like-Lion HACKERTON, NAVER & Like-Lion, Korea | 2018.12
1st Prize, Professor2vec : Word embedding and measure professor similarity using paper text data.

UNIST NAVER UnderGraduate Poster Award, UNIST & NAVER, Korea | 2017.12
4th Prize, Compare UX analysis and Text-mining : Measure customer similarity using interview text data

Spark Design Award, Spark, USA
Concept Design Finalist, Breezi | 2017.09

Mooc Study

Neural Networks and Deep Learning, Coursera.
Head Teaching Assistant, Andrew Ng · deeplearning.ai

Deep Learning, Udacity.
Nano Degree Program

Artificial Intelligence and Machine Learning1,2, KAIST, StarMooc.
Prof. Moon-il-Chul | Dept.of Industrial and Systems Engineering

Machine Learning, KAIST, Kmooc.
Prof. Alice Oh | School of computing

Essential Python Programming, UNIST&DGIST, StarMooc.
Prof. Cho-min-gyu

Programming for Everybody, MICHIGAN.Univ, Coursera.
Prof. Charles Severance School of Information University of Michigan

Introduction to Probability and Data, Duke.Univ, Coursera.
Prof. Mine Çetinkaya-Rundel School of Practice Statistical Science, Duke University

Paper Experience

Emotional Care Experience about smart watch user, HCI, Korea
Poster Presentation | 2016.03

Design for Sexual Crime Against Intellectually Disabled and Children KSDS, Korea , Paper | 2015.07

Language & Skill

English(fluent), Korean(native)
Python, R, React, HTML/CSS, Processing, Arduino, Sketch, Adobe illustration, Photoshop, Premiere

Teaching

Python for Data Science, UNIST, Korea
https://github.com/Dohppak/python_study
- Data Control with Pandas
- Linear algebra with Numpy
- Data Visualization with Matplotlib

- Basic Statistics with Scikt-learn
- DeepLearning with Pytorch

Information Design, UNIST, Korea

- Basic visual design Elements and Principles.
- Information Architecture Design
- Chart Design and Infographics
- Guided 68 students