NATURAL LANGUAGE PROCESSING | INFORMATION RETRIEVAL | KNOWLEDGE REPRESENTATION | DIALOGUE SYSTEM | MACHINE LEARNING

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Education

University College London (UCL)

London UK

Sep 2018 - (Jun 2022)

M.Eng. Computer Science (BS/MS)

• UK First-Class Honours predicted (4.0 in US GPA scale)

Research Experience ___

Amazon 2021 Alexa Prize TaskBot Challenge

London, UK

UCL WEB INTELLIGENCE GROUP

Jun 2021 - (Jun 2022)

- Mostly in charge of engineering Alexa Skills Kit and AWS products as well as other units for Task-oriented Dialogue System
- Supervised by Professor Aldo Lipani

Undergraduate Researcher @ UCL CSML (ELLIS Unit at UCL)

London, UK

UCL COMPUTATIONAL STATISTICS AND MACHINE LEARNING GROUP

May 2021 - Present

- Misinformation Detection (Verasity Prediction) on Social Media with Dynamic Graph Neural Network (DGNN)
- Supervised by Professor Emine Yilmaz and Aldo Lipani

Olfactory NLP

London, UK

UCL HUMAN-COMPUTER INTERACTION CENTRE

Oct 2020 - Mar 2021

- Group Research Paper: Exploring the potential of automating the process of clustering smell stories [paper] [code]
- Literature Review: An NLP Approach to Classify Smell Experiences [paper]

Work Experience _

CS Transition Mentor

UCL, London, UK

UNIVERSITY COLLEGE LONDON

Sep 2020 - May 2021

Transition Mentor for 1st year CS students. Help smooth transition to UCL by helping school-issues as well as coding.

Data Analyst Summer Intern

Yeongdeungpo-gu, Seoul, S.Korea

KB SECURITES (KB 증권)

Jun 2020 - Aug 2020

- Led a rule-based Investment Funds Recommender System project based on Network Analysis, Hierarchical Clustering and Association
- Piloted Stock Price Prediction System using LSTM Network and Natural Language News Data [Github Repo.]
- · Piloted a Social Media Monitoring System using KB's NLP Engine and Automation (RPA) software
- Use of Hadoop ecosystem (Map-reduce, Hive and Hue)

Software (Dialogue System) Engineer & Industrial Exchange Network Partner

London, UK

ROYAL COLLEGE OF GENERAL PRACTITIONERS (RCGP)

Oct 2019 - Apr 2020

- Built a task-oriented chatbot that assists in checking software compliance regimes that three bodies of British Healthcare Organisation have which makes longer time-to-market and a delay in cash flow
- Implemented RESTful API server for user intents and entities detection
- Built and deployed Task-oriented Chatbot service using Dialogflow and React/Express/ Node/MongoDB
- Made python scripts for Chatbot Integration Testing [code]

Society/Service

NLP paper study group (집현전)

virtual

SEASON 2 ORGANIZER [GITHUB REPO.]

May 2021 - (Nov 2021)

UCL Artificial Intelligence Society

UCL, London, UK

DEVELOPER RELATIONS(19/20) -> HEAD OF TUTORIALS TEAM(20/21) -> ML OFFICER(21/22)

Sep 2019 - Present

Main contributor and lecturer of Machine Learning Tutorials [YouTube playlist]

Teaching Assistant in Advanced Python Tutorials

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JUNE 28, 2021

Projects

Stanford CS229 Supervised Learning VIP Cheatsheet Korean translation

OPEN-SOURCE CONTRIBUTOR [PULL REQUEST]

Github

Jan 2021

S.Korea COVID-19 Dataset

Kaggle

KAGGLE DATASET CONTRIBUTOR

Feb 2020 - Present

- The first South Korean COVID dataset on Kaggle with MERS and SARS [kaggle dataset]
- 3,900 Views and 457 Downloads (Accessed on: Jun 2021)

Jsh: bash-like shell in Java

UCL London UK

PROJECT BY TEAM OF 3 MEMBERS Oct 2019 - Jan 2020

- Low and High level Code Refactoring & Agile Methodology
- TDD and DevOps (Unit&System Testing by JUnit, Branch&Instruction Coverage tests, Blackbox testing&Fuzzing, Static Analysis)
- Implemented in Factory, Decorator and Visitor Design Patterns

Relationship-Expert (Hackathon at FB London)

Facebook, London, UK

Dec 7-8 2019

BUILDING CONVERSATIONAL AI FOR MESSENGER HACKATHON

- Built a messenger-bot that checks if user's reply to one's lover is okay to send or not [Github Repo.]
- Fine-tuned a Transformer Language Model (BERT) using Pytorch for Sentiment Analysis
- Deployed the model with Facebook Messenger API (Node.js) and a Flask server

Professional Training

Google Developers Korea Machine Learning Bootcamp

virtual (GDG Korea)

TRAINEE

Oct 2020 - Jan 2021

- 4-month-long ML Bootcamp hosted by Google Developers Korea. Education fees are all funded, selected in one of 8% of 3K+ applicants.
- Earned Deep Learning Certificate by weekly assignments
- Attended weekly tech-talks and clinics

UCLQ Quantum Tech Summer School

UCL, London, UK

TRAINEE

TRAINFF

Sep 2020

- As one of 27students, selected internationally for a week-long Quantum Computation crash course
- Basics of quantum physics and its application to computation
- Tools: IBM Quantum Experience and Qiskit

KAIST Artificial Intelligence Bootcamp

Yangjae Al Hub, S.Korea

Jun 2019 - Aug 2019

- 5 hours-long lectures 5 days a week, covering wide range of theory of ML & DL
- Project 1: Kaggle Titanic 81% Accuracy [code]
- Project 2: Neural Style Transfer. Model comparison, Feature map visualisation and Hyperparameter Tuning [code]

Awards/Grants

2021 Centenary Award 20/21 UCL best societies award (Artificial Intelligence Society) **UCL Student Union** 2021

Summer Research Grant CS undergraduate summer research grant

UCL CS Dept.

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Certifications

2020 **Deep Learning Specialization** 5 courses on Coursera - Prof. Andrew Ng deeplearning.ai 2020 The Fundamentals of Digital Marketing Google Adsense, Search console, SEO, etc. Google D.G 2020 Introduction to AI in the Data Center Data centre Architecture and GPU accelerated computing **NVIDIA** 2020 **JavaScript Essential Training** LinkedIn Learning KAIST Aritficial Intelligence Bootcamp Certificate of Completion 2019 KAIST & Seoul Gvmt.

Professional Skills

Programming Python, R, Java, C, Haskell, JS, Arduino, Processing ML / DL Tensorflow 2, Pytorch, Keras, OpenCV, Scikit-Learn

Data Skill SQL, Hadoop, SAS, Numpy/Pandas/Matplotlib, Tableau, Web-Scraping

SW-Dev Node, Express, React, Flask, MongoDB, PostgreSQL, **Platforms** Linux, Git, Docker, AWS, Google Cloud Platform(GCP)

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