

YOUNG-SUK HWANG

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EDUCATION

Columbia University

New York, NY

M.S. in Management Science and Engineering, GPA: 3.80/4.00

Expected Dec 2020

Coursework: Machine Learning; Big Data and Cloud Computing (AWS); Business Analytics; Operations Consulting; Machine Learning in Genomics; Healthcare IT; Ph.D. Applied Multivariate Statistics; Ph.D. Stochastic Modeling;

Seoul National University

Seoul, KR

B.S. in Industrial Engineering, GPA: 3.76/4.30, cum laude

Feb 2019

Coursework: Data Management & Analysis; Data Structures & Algorithms; Search Engine (NLP); Computer Architecture; Operations Research; Product Development & Design;

RELEVANT EXPERIENCE

Moloco - Big Data/Machine Learning Adtech Company

Redwood City, CA

Data Scientist Intern

Jul 2020 - Sep 2020

- Analyzed and visualized data from millions of mobile apps utilizing BigQuery and Looker to provide insights into mobile ad-campaigns
- Developed eight new Looker dashboards while optimizing 100+ frequently used SQL queries, reducing data usage and processing time by 90% on average; expected to decrease query costs \$10,000 per month
- Co-operated with the marketing team in publishing an article about impacts of COVID on supply & demand trends of mobile-ads

Droice Labs - Big Data/AI Healthcare Company

New York, NY

Data Science Consultant as a part of Columbia University

Sep 2019 - May 2020

- Led a team of 7 students in constructing national heat-maps of 250 different health conditions and succeeded in a feasibility test for new products through improving correlation by 30% beyond the client's expectation
- Built ETL pipelines from Medicare & Medicaid databases, manipulating 35M rows of data using Pandas
- Utilized Tableau to create heat-maps with hospital discharge data and verified it with drug prescription data

Kearney - Global Management Consulting Firm

New York, NY

Data Science Consultant as a part of Columbia University

Sep 2019 - May 2020

- Developed an evaluation/prediction model to research the effect of design-centricity to corporate financial performance
- Collaborated with 3 organization leads and 10+ personnels and managed team meetings, project timelines, and task allocation to complete projects on time
- Performed data aggregation from scratch by defining features, extracted insights through a regression model, and presented final deliverables to be applied in Kearney's consulting practices

TECHNICAL SKILLS

Languages

Python, SQL, R, Java, C, Bash

Tools

Numpy, Pandas, Scikit-learn, AWS, BigQuery, Looker, Git, Django, Postgres, MySQL, RESTful API, DynamoDB, Elasticsearch, Regex, Beautiful Soup, Linux, Tableau

DATA SCIENCE PROJECTS

Machine Learning Software Development using AWS

Jan 2020 - May 2020

- Created 1) a web chatbot that sends a SMS message after extracting user intention, and 2) a classifier that automatically reports spam emails to a gmail account based on a ML model
- Built ETL pipelines to pull GBs of data from Yelp through Yelp API and leveraged AWS (S3, SageMaker, DyanmoDB, Lex, SQS, SNS, SES) to implement chatbot and classifier

Novel Visualization of Transposed Single-cell Gene Data

Feb 2020 - May 2020

- Researched a novel visualization approach of high dimensional gene data, harnessing machine learning techniques such as dimensionality reduction (t-SNE & UMAP) and clustering algorithm in a research team of two
- Applied a Deep Auto-encoder to preprocess and cluster single-cell RNA-seq data

Implementation of Diverse Machine Learning Algorithms

Jan 2020 - May 2020

- Implemented ML algorithms such as Ridge Regression, Logistic Regression, Naïve Bayes, KNN, Gaussian Process, K-Means, PMF, NMF, and Markov Chain Model to solve problems such as spam detecting, user-movie ratings, and sports teams ranking

ADDITIONAL INFORMATION

- Military Status: Served in the US Army Korea for two years as an augmented soldier: Released from active duty as Sergeant
- Leadership & Volunteer: Professional Development & Leadership Fellow, Columbia Engineering; Peer Mentor, Columbia Peer Connect Navigator Program; Engineering Math Tutor, SNU Engineering;
- Interests: Reading, Hiking, Skiing, Biking