

YOUNG 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); Ph.D. Applied Multivariate Statistics; Ph.D. Stochastic Modeling; Business Analytics; Operations Consulting;

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 mobile apps utilizing BigQuery and Looker to provide insights into mobile ad-campaigns
- Developed 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
- Partnered with the marketing team in publishing an analysis about the impacts of COVID19 on supply & demand 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 on 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

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

DATA SCIENCE PROJECTS

Machine Learning Software Development using AWS

Jan 2020 - May 2020

- Created 1) a web chatbot sending a restaurant recommendation through a text message, 2) a spam classifier machine automatically reporting spams on a gmail account
- Built ETL pipelines to pull GBs of data from Yelp through Yelp API and leveraged AWS microservices (S3, Lambda, SageMaker, DyanmoDB, Lex, SQS, SNS, SES) to implement chatbot and classifier

Rapid Identification of Diabetes on ICU patients

Dec 2020 - Jan 2021

- Implemented a machine learning model predicting ICU patient's diabetes from first 24 hrs of electronic medical records
- Achieved an .90 AUC score leveraging XGBoost model and ranked on top 10% of datathon

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
- Presented the research result and received an offer from professor to continue the project in summer

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