

Haneul Kim

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Specialization

- Hadoop, Hive and Spark.
- SQL (MySQL, Oracle)
- Python.
- Mathematics (Linear Algebra, Chaos Theory)
- Statistics (Quantitative analysis, Probability, and Bayesian statistics)

Experience

Olulo (Micro-mobility service)

Sep.2019 - Current

Data Engineer

- Implemented Bayesian statistics machine learning algorithm suitable for fast paced and unpredictable big data leading to 10% decrease in operational cost.
- Developed Statistical experiment for marketing, found best time to send out coupons for increasing re-use rate. Proved Statistical experiment to be significant using hypothesis testing and in conclusion increased over 25% re-use rate.
- Established efficient data pipeline using AWS services for quantitative data analysis.
- Automated data analysis for key product metrics using ELK service dashboard for daily report and error tracking.

Projects

Air Quality Visualization: Input country then receive summarized information and a map with air quality index.

- Automated data mining webs and summarize using natural language technique term frequency-inverse document frequency.
- Built flask-scheduler for parallel programming that updates MySQL database in the background while maintaining successful running app.
- Built reliable data sets to empower exploratory analysis.
- Developed using MySQL, Python, html, CSS, JavaScript and machine learning concepts.

Keyword Finder: Given job title and location program will visualize using dashboard, most frequent words that appeared in all the job descriptions.

- Built fully automated data mining, data transformation, and data visualization program.
- Administered natural language processing tools to clean and tokenize data.
- Machine learning algorithms such as count vectorizer to design bag of words and considered both unigram and bigram words for most frequent words' visualization.
- Link: <https://github.com/HaneulKim214/Keyword-Finder>

Education

University of Toronto

Jan.2019 – July.2019

Data Analytics Boot Camp

- Intensive 6-month boot camp focused on state-of-the-art data analytics and visualization tools.
- Attained knowledges in Hadoop, SQL, NoSQL, Cloud services, Tableau, and Power BI.
- Successfully built full-stack data visualization apps using Python, SQL, and machine learning.

University of Toronto

Sep.2013 – May.2018

Bachelor of Science: Mathematics, Psychology

- Relevant Courses: Linear Algebra I&II, Chaos theory, Differential equations, Statistics, Probability, Combinatorics, Differential equation, and Abstract Mathematics.

Chinese University of Hong Kong

Sep.2015 – May.2016

Bachelor of Science: Mathematics, Psychology

- Full scholarship exchange student.