JISU BAEK

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EDUCATION

Columbia University, New York

Expected May 2022

M.S. in Applied Analytics; GPA 4.05/4.30

• Capstone project: Marketing channel optimization and effectiveness evaluation using R for healthcare consulting

Sungkyunkwan University, Seoul, Korea

Aug 2015

B.B.A. with an emphasis on Quantitative Methods

- Dean's list with distinction, four-year full-tuition scholarship awarded for academic excellence
- Study-abroad: Beijing Language and Culture University (2011)

CORE COMPETENCIES

• Programming: R

• Visualization: Tableau Software, Power BI

• Database: PostgreSQL, MySQL, pgAdmin, MongoDB, Elasticsearch, Neo4j

• Version Control: Git

PROFESSIONAL EXPERIENCE

Lotte Department Store, Seoul, Korea

Jul 2015 – Nov 2020

Data Analyst – Sales and Marketing (Female Clothing Section)

- Performed a Principal Component Analysis (PCA) and market basket analysis to cluster customer segments
- Designed and implemented cross-selling promotion campaign by identifying a strong association between clothing customers and cosmetics customers, resulting in 5.7% sales growth
- Honored as Employee of the Year (2016) for outstanding performance in analytical marketing strategy

Data Analyst – Task Force Project (Young Target Omni Channel)

Aug 2016 – Dec 2017

- Redesigned the KPIs for each marketing funnel and cooperated cross-functionally with online marketing team
- Optimized a logistic regression model on conversion rate using R and SQL
- Developed interactive on/offline marketing campaign using beacon services, increasing on/offline sales by 50% within one month timeframe

Data Analyst – Task Force Project (Female Fashion Merchandise)

Nov 2015 – Aug 2016

- Collaborating with Merchandise team, automated and integrated quarterly KPI and market basket analysis reports and dashboards using real-time Tableau dashboard
- Deep-dived into customer data and customer purchasing patterns through cohort analysis with R and SQL
- Provided cross-merchandising strategy by combining female clothing and food, which increased the average time spent in-store; expanded total sales revenue of second floor by 400% compared to the previous year

RELEVANT PROJECTS

AirBnB

Spring 2021

- Applied Random Forest algorithm with 10-fold cross validation to better predict the NYC accommodation price using R, resulting in R²=0.94 and a 0.175 of RMSE.
- Compared model performance of various machine learning algorithm and regression model to find the best model
- Identified the relationship between geographic location and accommodation price in New York

Booking.com Summer 2021

- Managed hotel booking data and food delivery data and developed ETL pipeline using SQL
- Prototyped an application service combining hotel booking and food delivery service in Seoul Korea using Shiny
- Deployed the basic customer analytics and business insights in the application to attract more hotel and food delivery service providers

HONORS

• Employee of the Year for Excellence in Performance, Lotte Department Store	May 2016
• LTE Integrated Marketing Communication Strategy Competition, 1st Place, Korea Telecom	Nov 2013
• Marketing Campaign Competition over Converting walk-ins to appointment, 1st Place, LG	Jul 2013
 Marketing Communication Campaign Competition to increase brand awareness of Lenovo 	May 2013
• KT&G Asia Venture Start-up Idea Contest, 4th Place, The Korea Economic Daily	Feb 2013