Sooeun Oh

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EDUCATION

Georgetown University, Washington, DC — Class of 2019
Master of Science in Analytics — GPA: 3.5/4.0

University of Maryland, College Park, MD — May 2016
Bachelor of Arts in Economics / Minor in Statistics (Dean's List) — GPA: 3.3/4.0

TECHNICAL SKILLS

Language: *R(dplyr, ggplot, tidyr), Python(NumPy, Pandas, Matplotlib, Scikit-Learn, Jupyter Notebook, Tensorflow), C++, SAS, HTML, Minitab, Tableau, Git, Amazon Web Service(EC2, EMR, S3), Hadoop, Spark and SQL*
OS*: Windows, Unix(Mac OS, Command Line)*
Software*: Microsoft Office Word, Excel, and PowerPoint*

DATA SCIENCE PROJECT : http://sooeunoh.georgetown.domains

Happiness Prediction using Twitter Sentiment Analysis Project

- Predicted individual's happiness using twitter data utilizing Python and conducted visual analysis with Tableau; performed cluster analysis (MDS, K-Means, Wards), correlation analysis, and sentiment analysis.
- Concluded an existing relationship between the sentiment of tweets reflecting life satisfaction amongst users.

Economy of Sub-Saharan Africa - Data Visualization Project – Invited to Analytics Showcase as the best project

- Conducted a full visual exploratory data analysis (EDA), created new features, and performed statistical analysis including hypothesis tests, correlation, and regression on 6 datasets with R and Python.
- Created 30 interactive and static visual narratives of relationship between Africa's economic development and its infrastructure by using Tableau, shiny, plotly, networkD3, leaflet, matplotlib, bokeh, seaborn, ggplot2.

Korean Movie Review Prediction – Natural Language Project

- Collected 9,220 Korean movie review samples by scrapping via Beautiful Soup, classified sentiment by 3 classes(positive, neutral, negative), and pre-processed the data including tokenization, stop-words generation and vectorization.
- Implemented Logistic regression, Ridge regression, Naïve Bayes, Stochastic gradient descent, and Convolutional neural network as classifiers to achieve the best accuracy.

Natural Language Hackathon – Invited to Analytics Showcase as the best hackathon team

- Detected the test language by applying polyglot and spacy in the corpus and concluded it as Indonesian based on Spearman's rank correlation.
- Created elastic search index that represents the test documents and included the result of analytics.

RESEARCH EXPERIENCE

Kaulkin Ginsberg Economics Research Fellowship, College Park, MD
Research Fellow — January 2016 – April 2016

- Researched and compiled quantitative and qualitative data on the student loan industry and its interaction with collection agencies by examining the request for proposal process (RFP), federal and private lender financial filings, and other regulatory and compliance data.
- Utilized STATA to perform a time series regression and other statistical techniques to analyze, interpret, and forecast the effects of economic and demographic variables on the student loan industry.
- Developed and presented a market intelligence report on the viability of the student loan industry for a simulated private equity investor looking to acquire a collection agency focused on this space.

WORK EXPERIENCE

Georgetown University, Washington, DC
Technology and Research Assistant – Office of Senior Vice President for Research — May 2018 – Present

- Create 655 robots and monitor 600 robots of Expandable Open Source (EOS) database utilizing Kapow.
- Expand the volume of robots for each internet-accessible article by scrapping the archived source to be updated or removed using SQL, adding 2500 new sources, and debugging errors.

Pernod Ricard Korea, Seoul, South Korea
Marketing Associate – ABSOLUT VODKA — February 2017 – July 2017

- Generated consumer promotion planning and conducted a market research & competitor analysis using statistical software.
- Supported implementation and monitoring ATL/BTL activities including media, PR, and sponsorship.

EXTRA CURRICULAR ACTIVITIES

- **Student Ambassador,** Analytics Department — January 2018 - Present
- **Representative of Analytics Program,** Graduate Student Government Assembly — August 2017 - Present