BRANDON KANG

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EDUCATION

Georgia Institute of Technology *August 2016 - December 2020*
B.S. Industrial and Systems Engineering *GPA: 4.0*

DATA SCIENCE SKILLS

Programming Languages	Python, R, JavaScript, MATLAB
Python Packages	Pandas, NumPy, SciPy, Sci-Kit Learn, Matplotlib, Seaborn, LightGBM, Gurobi
Software & Tools	SQL, JavaScript's D3, Splunk, Hadoop, Spark, Tableau, Power BI, HTML, CSS

EXPERIENCE

Georgia Institute of Technology *August 2018 - Present*
Statistics & Regression/Forecasting Teaching Assistant

- Graded assignments and exams and reinforced fundamental regression and forecasting concepts in sessions of 75 students
- Rated 4.8/5.0 in the course evaluation survey for overall effectiveness and teaching by 40 students in Fall 2019

Viasat *May 2019 - October 2019*
Data Science Intern

- Developed 3 KPIs for quantifying customer internet experience during incidents on a satellite network by analyzing customer churn, customer call, and terabytes of network performance data in Splunk and Python
- Analyzed historical incidents to build an algorithm for determining incident severity in regard to customer experience to minimize future impact for up to 1000 incidents every year and to gain clearer insight into the customer experience
- Presented findings to senior VPs who offered to continue intern project through Fall 2019

Gas South *May 2018 - August 2018*
Data Science Intern

- Developed a regression model in Python using Machine Learning (Gradient Boosting) to predict margins for the sales department to target prospective customers
- Expedited acquisition process for acquiring small commercial customers by simplifying the decision tree by 75% from analyzing trends in customer credit and behaviors
- Created an ARIMA model to predict monthly gas consumption for Florida customers and minimized imbalances by 10%

PROJECTS

Redesigned Event Valuation *May 2019 - December 2019*

- Redesigned the Georgia World Congress Center's event valuation process to a data-driven assessment of profitability
- Implemented a room assignment optimization model, a cost prediction model using Machine Learning, and a profit classification tool that are projected to increase annual profits by $1.1 million (18%)
- Created an interactive web app using HTML, CSS, JS, Python's Flask, and SQLite that implements all three models
- Awarded both the Best Industrial Engineering project at the GT Capstone Design Expo and Best of Senior Design among finalists in the Senior Design course

Predicting the Next Big Hit *September 2018 - December 2018*

- Predicted popularity of songs by implementing a LightGBM classifier in AWS Sagemaker and using Spotify's API
- Cleaned a 380 GB dataset and performed dimensionality reduction and feature engineering to improve model performance
- Created a web application that allows users to visualize song feature values and predicted popularity using JavaScript's D3

ORGANIZATIONS

Seoulstice at Georgia Tech *August 2016 - Present*
Founder and President

- Introduced and expanded Korean culture in Georgia Tech and led a dance team with 20 members for 3 years
- Chartered Seoulstice as a student organization by organizing an executive board and completing chartering documentation
- Awarded "Best New Organization" at an awards ceremony at Georgia Tech that highlights outstanding student organizations
- Organized and hosted dance showcases with up to 150 attendees and awarded 2nd place at multiple dance competitions