

Dongcheng (Sarah) Ge

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EDUCATION

Georgia Institute of Technology <i>MS in Analytics</i> Atlanta, GA	Dec 2022
Coursework: Machine Learning, Deep Learning, Analytics Modeling, Computing for Data Analytics, Data and Visual Analysis, Simulation GPA: 4.0	
Baruch College <i>MS in Computer Information Systems</i> New York, NY	May 2017
Johns Hopkins University <i>MS in Marketing</i> Baltimore, MD	Aug 2014
Nanjing Normal University <i>BA in Business English</i> Nanjing, China	July 2011

SKILLS & CERTIFICATIONS

Programming & System: Python, SQL, R, Scala, JavaScript, CSS, HTML, VBA

Modeling Techniques: Regression, Classification, Clustering, Simulation

Framework & Tools: Spark, Pandas, NumPy, Scikit-Learn, Polars, dbt, MODE, AWS, Azure, Plotly/Dash, Simio, Tableau, Power BI

Languages: English, Chinese Mandarin

PROJECTS

Predict likelihood of members having housing insecurity issues <i>Sponsor:</i> Humana	Fall 2022
<ul style="list-style-type: none">Analyzing a data set of 900 features, identified Medicare members most likely to be struggling with housing insecurity issues by applying decision tree-based ensemble algorithms, and finetuning with Optuna.Language: Python; Model: XGBoost, LightGBM; Framework: Optuna	
Retail Service Support Problem Management <i>Sponsor:</i> NCR	Spring 2022
<ul style="list-style-type: none">Cleaned and analyzed over 18 million records of device incident data and service notes.Created and compared multiple models to explain the variation in resolution times of different incidents.Applied topic modeling techniques to find meaningful incident clusters.Language: Python, SQLite; Model: Regression, Random Forest, Survival Models, NLP	
Detection and Clustering of Digital Signal Impairments (Top 5) <i>Sponsor:</i> Cox Communications	Spring 2022
<ul style="list-style-type: none">Created a sliding window algorithm using python, combining with HDBSCAN to perform clustering on full band capture data, and to detect different types of wave impairments.Language: Python; Model: HDBSCAN	
Stock Behavior Predicting	Fall 2021
<ul style="list-style-type: none">Combined the outputs of sentiment models (VADER) with time series data and trained the new dataset with multiple tree-based and regression models, to predict stock opening price trends.Visualized predictions and other stock or sentiment related information using Plotly (Dash).Language: Python; Model: VADER, XGBoost, Exponential Smoothing, Auto Linear Regression, Auto Logistic Regression	

EXPERIENCE

Shopify (USA) Inc. <i>Data Science Intern</i> Atlanta, GA	May 2022 – Aug 2022
<ul style="list-style-type: none">Designed and created weekly reports using an internally built SQL alerting framework.Built and deployed a metric model using internally developed data transformation tools and metric definition framework.Created multiple ad-hoc reports for cross-functional teams such as returns, refunds and marketing, using MODE.Documented multiple MySQL raw tables using an internally developed Ruby Gem.Language: SQL, Python; Tool: MODE, dbt, and other tools/frameworks that are developed in-house	
China Overseas America, Inc. <i>Marketing Manager</i> New York, NY	Feb 2017 – Mar 2021
<ul style="list-style-type: none">Achieved 100% sales goals and reduced advertising cost to under 50% of the market average.Built and optimized pricing models using regression in Excel.Automated marketing and sales reports by programming in Excel, which significantly improved team efficiency.Led a team of 6, along with external collaborators, to conduct thorough research on New York condo market.Improved cross-departmental communications by promoting company-wide learning sessions, and re-engineering cross-functional reporting systems.	
United Nations <i>Digital Marketing Analyst (Intern)</i> New York, NY	Feb – Aug 2016
<ul style="list-style-type: none">Monitored and analyzed website/social media performance data to provide insights to supervisor.	