

DANIEL LEE

PROFILE

Experienced ratings associate with a specialization in data analysis and visualization. In-depth education and background focused on statistical analysis, regression, and mathematics. Spent the last three years learning programming languages to create more complex and interactive data visualizations, and now seeking a more data-focused position that will further deepen passion for data science.

EXPERIENCE

S&P GLOBAL SEP 2017 - PRESENT

Associate - Unsecured Consumer Asset Backed Securities

- Model structured finance cash flow projections using C-derived scripting language
- Develop, deploy, and maintain workflow application that saved hundreds of hours a month by automating inputs and updating databases
- Create and maintain SQL database to track and view model performance and usage statistics
- Collect data on model's performance history to identify input issues and recommended solution that reduced model runtime by 67%
- Implement and maintain version control for modeling scripts using CVS

Credit Analyst - Methodologies

- Preprocessed, cleaned, and visualized large datasets of 12,000 transactions to develop data-driven, global criteria using Python and Excel
- Created interactive market dataset visualizations using Python to develop key risk assumptions for all rated transactions
- Served as primary data analyst on multiple global projects and collaborated with dozens of unique teams to collect and process data from heterogenous sources
- Data-mined over 2 TBs of company archives to provide data-driven, actionable insights on redundant operating procedures
- Collaborated with data scientists to extract and transform data from company archives using SQL

PROJECTS

COVID-19 NYC DASHBOARD MAR 2020 - PRESENT

- Designed and developed full-stack interactive web dashboard that presents zip code breakdown of NYC COVID-19 cases using data from the NYC Department of Health and the US Census
- Created map and graph visualizations using a combination of Python, HTML, and Javascript
- Extracted, cleaned, and analyzed datasets from the U.S. Census database using Python
- Conducted hypothesis testing and ran regressions to identify key demographic trends that affected COVID infection rates
- Environment: flask, dash, pandas, sqlite3, folium, beautifulsoup, lxml, scipy, seaborn, plotly, matplotlib, numpy, HTML5, CSS, Bootstrap, W3

GRACE STREET DELIVERY PLATFORM MAR 2020 - MAY 2020

- Developed and implemented online delivery platform for local cafe's charity drive during COVID-19
- Collected data on orders to identify key neighborhoods for delivery in New York City
- Integrated data pipelines to expedite order processing and generate automated reports
- Environment: JavaScript, Python, HTML5, CSS, Bootstrap, W3

CONTACT

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W: <http://www.danleedata.com/portfolio>

W: <https://github.com/Dan-S-Lee>

EDUCATION

UNIVERSITY OF CHICAGO 2021 - 2023
M.S. Analytics

COLUMBIA UNIVERSITY
Non-Degree Computer Science 2021 - 2021

NEW YORK UNIVERSITY
B.A. Mathematics and Economics 2013 - 2017

NON-DEGREE CERTIFICATES

Coursera 2018 - 2020

- Python for Everybody Specialization
- Deep Learning Specialization

TECHNICAL SKILLS

- Microsoft Excel / Visual Basic
- Python
- SQL
- R
- JavaScript
- HTML
- CSS
- Java
- Feature engineering
- Neural networks
- Data Structures
- Algorithms

AWARDS

- Analytical Excellence Award (S&P Global)
- Acknowledging and Celebrating Excellence Award (S&P Global)