# Data Scientist

**Adept at Using Scientific Methods, Processes, Algorithms and Systems to**

**Provide Critical Business Insights**

Passionate about using data to analyze and synthesize infrastructure, solve complex problems, and design actionable plans for organizations. Remain abreast of changes in data analytics and intelligent ecosystems. A trusted advisor with an established reputation for leading and coaching high-performing technical teams. Collaborate with cross-functional business partners to anticipate future needs, lead projects, define priorities, and mitigate risk. Provide prescriptive solutions that guide decision making through advanced analytical models.

Areas of expertise include:

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| * Agile / Lean Project Management * Data Wrangling, Analysis and Visualization * Software Engineering * Software Development Life Cycle (SDLC) | * Machine Learning Models * Advanced Analytical Models * Client and Vendor Management * Leadership and Coaching |

# Data Science & Analytics Projects

**GeoTweet –** Python, PostgreSQL, ETL, Flask, Heroku, JavaScript/D3 | [GitHub](https://github.com/daddyjab/GeoTweet/blob/master/README.md) | [Visualization](https://geotweetapp.herokuapp.com/) (Heroku)

**Developed full-stack interactive dashboard of Twitter Trends to aid political analysis.**

* Partnered with a small team to retrieve trending Twitter terms and correlate with state demographics.
* Implemented database and API backend using Python, Pandas, Flask, SQLite, Postgres, and deployed using Heroku. Designed and executed selected demographics charts using Javascript, D3, and Plotly.

**CitiBike –** Python, Tableau | [GitHub](https://github.com/daddyjab/CitiBike/blob/master/README.md) | [Visualization](https://public.tableau.com/profile/jeffery.brown#!/vizhome/CitiBike_with_Paths_Idle_Time_JAB_v5/StoryCitiBike) (Tableau)

**Provided analysis and visualization of CitiBike usage in the Jersey City Area.**

* Worked independently to explore and analyze CitiBike usage and summarize key findings.
* Used Python (Pandas) to explore CitiBike datasets and prepare them for analysis. Performed analysis and implemented reports and dashboard using Tableau. Published summary on Tableau Public.

# Professional Experience

**NOKIA**[,](http://www.righteverywhere.com/) Naperville, IL 2004 to Present

**Release Leader, Mobile Networks 2016 to Present**

Partnered with cross-functional business stakeholders to lead customer-specific end-to-end validation testing for 4G and 5G releases.

* Led end-to-end validation testing efforts for over 6 releases, successfully completing testing focused on the configurations, scenarios, and performance metrics used by our customers.
* Drove savings of $900K and improved effectiveness, quality, and employee satisfaction by engaging 200+ project members to brainstorm 60+ ideas for Lean initiatives.
* Empowered 4 teams to analyze corporate survey results and develop action plans over 2-year period.
* Promoted collaboration using Microsoft SharePoint, OneNote, and other resources, including development and delivery of webcasts / in-class tutorials to 100+ participants.
* Reduced data preparation time 50% by developing Excel VBA applications and Power BI visualizations to facilitate tracking and management of test progress.

**Capacity, Performance, and Resiliency Test Manager 2011 to 2016**

Built and guided teams of engineering professionals to evaluate LTE network performance using state-of-the-art tools and techniques. Drove product changes to improve quality. Collaborated with customers (leading wireless service providers) to ensure world-class performance.

* Helped highlight the linkages between end-to-end performance testing results and SW quality through refinements in the organization performance dashboard reported monthly to business leadership.
* Improved resiliency testing to provide more targeted focus on client needs; managed quarterly discussions with customers, and guided internal global test teams.
* Overhauled workflow and increased transparency through implementation of Lean methods in resiliency testing and management of third-party tools integration and support.
* Restored customer confidence by researching, evaluating, and deploying specialized testing equipment to catch voice quality problems in-lab vs. in our customers’ networks.

**Wireless Platforms and RAN Test Manager 2004 to 2011**

Ensured wireless network SW/HW platform systems and LTE Radio Access Network products met the demanding expectations of client base. Worked with global development teams and third-party vendors both directly and as manager of technical professionals.

* Improved test automation team responsiveness and satisfaction through implementation of Agile (Scrum) best practices, providing a consolidated view of customer needs, backlog, stories, and tasks managed through an easy-to-use tool.
* Received the Alcatel-Lucent 2014 Award of Excellence and Innovation for continuing efforts to improve individual and organizational effectiveness using technology.

**Adjunct Faculty Experience**

**COLLEGE OF DUPAGE,** Glen Ellyn, IL

**Adjunct Faculty** 2017 to Present

Expanded the knowledge of 50+ continuing education students by occasionally teaching computer classes, including Microsoft Office applications (Excel, PowerPoint, Word, Access, Outlook, and OneNote).

**Data Science Tools & Technologies**

Python (Pandas), Excel Visual Basic for Applications (VBA), Tableau, Power BI, R, Machine Learning (Logistic Regression, Linear Regression, Random Forests, Hyper-Parameter Tuning), Neural Networks/Deep Learning (Keras), Big Data (PySpark), SQL Databases (PostgreSQL, MySQL, SQLite), NoSQL Databases (MongoDB), Extract/Transform/Load (ETL), Web Scraping (BeautifulSoup, Splinter), APIs (Flask, JSON), Visualization (JavaScript, D3, Leaflet, HTML, CSS, Bootstrap), Heroku

**Education & Professional Development**

## Deep Learning Specialization – In Progress, Coursera.org

Neural Networks and Deep Learning; Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization; Stucturing Machine Learning Projects; Convolutional Neural Networks; Sequence Models

## Certificate in Data Science, Northwestern University, Chicago, IL

Intensive 24-week Data Science Boot Camp providing hands-on learning, with application of data exploration, analysis, and visualization tools and techniques to real-world analytical challenges.

**Master of Business Administration (MBA)**, Illinois Institute of Technology, Stuart School of Business, Chicago, IL

**Master of Science in Electrical Engineering (MSEE)**, Rensselaer Polytechnic Institute, Troy, NJ

**Bachelor of Science in Electrical Engineering (BSEE)**, The Ohio State University, Columbus, OH