

JEFFERY A. BROWN

PORTFOLIO (GITHUB): [HTTPS://DADDYJAB.GITHUB.IO/JEFFERY BROWN PORTFOLIO](https://daddyjab.github.io/jeffery_brown_portfolio)

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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:

- 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](#) | [Visualization](#) (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](#) | [Visualization](#) (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, 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 30+ 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, Big Data, 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**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