TIMOTHY A. BROWN
Atlanta Metro Region, Georgia

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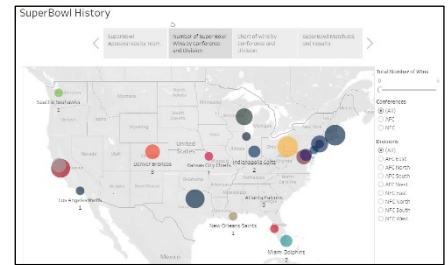Mobile: 678-201-1250   Portfolio: brownt47.github.io/

Projects:

Tableau Dashboard for NFL Super Bowls (link)

> Motivation to build this dashboard? Comment from a friend:
> "All my life, it seems like the Patriots are always in the Super Bowl."
> Turns out, the Patriots never had a gap of more than three years
> between Super Bowl appearances during my friend's lifetime.
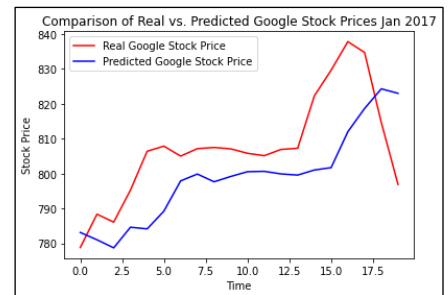
Sports Data Analysis

> Investigated distributions of sacks and touchdowns in an NFL season.
> Persuaded fantasy league to increase the point value for sacks in an IDP Fantasy League.
> Allowed flexibility for building defensive teams and a more competitive league.
> New fantasy players learned defensive player names and position roles.

Predicting Google Stock Prices

> Built a Long short-term memory (LSTM) model to predict one month of
> Google stock prices.

Successful Appeal of Property Tax Increase

> Performed regression analysis using Excel, R, RStudio and ggplot2.
> Scraped and cleaned data from real estate and property tax websites.
> Presented report to a panel at the county Tax Assessors office.
> Convincingly showed the assessment was well-above comparable properties.
> Saved the client over $3,000 on property taxes.

"Netflix Prize" Recommendation Engine Application for Hiring Process

> Reduced time needed for faculty job searches from a year to six months.
> Built an unsupervised recommendation engine in MATLAB to improve hiring process.
> Created auditable workflow and data filtering process.
> Success rate of job postings increased from 40% to 100% over two years.

Employment History:

2011 – Pres   Associate Chair of Mathematics - *Georgia State University*
> Manage on-campus and online academic departments.
> Conduct training workshops for students, faculty, and staff.
> Teach courses in mathematics and statistics.

2004 – 2011   Assistant Professor of Mathematics and Computer Science - *South Georgia State College*
> Conducted assessment of all students for institutional accreditation.
> Designed curriculum for math and computer science programs.
> Taught courses in mathematics, statistics, computer science and IT.

1998 – 1999   Programmer I - *U.S. Dept of Treasury, Customs Bureau*
> Updated nautical manifest system to Y2K compliance standards.
> Discovered the destructive backspace in the code editor.

Education:

2004   M.S. Mathematics - University of California, Riverside
1999   B.S. Mathematics and Computer Sciences - Greensboro College, North Carolina
2020   Research Data Services Certification - Georgia State University

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Skills, Knowledge and Abilities:

Programming
- Python
- R
- MATLAB
- JAVA
- C/C++
- VBA
- SQL

Python Libraries
- Numpy, Pandas
- SciKit-Learn
- TensorFlow
- XGBoost
- Ktrain
- NLTK

Machine Learning
- Regression Analysis
- Decision Trees and Random Forests
- Artificial Neural Networks
- Convolutional Neural Networks
- Recurrent Neural Networks
- Recommendation Systems
- Natural Language Processing (NLP)
- Associate Rule Learning
- Reinforcement Learning

Microsoft Office Suite
- Word
- Excel
- PowerPoint

Visualization, Graphic and UX/UI design
- Tableau
- GGplot2
- Seaborn
- Matplotlib
- Adobe PhotoShop
- Adobe Xd

Interpersonal Skills
- Public Speaking
- Team Leader
- Project Management
- Professional Coaching
- Empathy and Perspective
- Collaboration
- Creative Design