TIMOTHY A. BROWN
Atlanta, Georgia

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LinkedIn: linkedin.com/in/brownt47/
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Projects:

Successful Appeal of Property Tax Increase
- Performed regression analysis using Excel, R, RStudio and ggplot2.
- Scraped and cleaned data from real estate, ArcGIS, and property tax websites.
- Crafted report and defended 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.

Tableau Dashboard for Course Enrollments
- Built a Tableau dashboard for course enrollment data.
- Combined data for cross-listed and embedded courses in Excel using a VBA script.
- Displayed enrollment levels at various levels of granularity – college, campus, department.
- Predicted cancelled courses according to an adjustable low-enrollment parameter.
- Resulted in timely mitigation strategies for low-enrollment courses.

"Netflix Prize" 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.

Fake News Detector – NLP Kaggle Competition
- Built a "Fake News" detector using Google's BERT NPL model.
- Achieved 98% accuracy which places it in the top 3 finalists for the contest.

Time-Series Forecasting for Course Offerings
- Track historical trends in enrollment data to plan future course schedules.
- Reduced proportion of cancel classes per semester from 10% to 3%.

Employment History:

2011 – Pres Associate Chair of Math, Computer Science and Online Learning - *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 Math 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 in COBOL.
- 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++
- VBA
- COBOL
- SQL

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

Machine Learning
- Regression Analysis
- Decision Trees and Random Forests
- Artificial Neural Networks
- Convolutional 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
- PowerPoint
- Adobe PhotoShop
- Adobe Xd

Soft Skills
- Public Speaking
- Team Leader
- Project Management
- Arbitration, Mediation and Resolution
- Active Listening
- Professional Coaching
- Empathy and Perspective
- Collaboration
- Creative Design