

## TIMOTHY A. BROWN

Atlanta, Georgia

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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 cancelled classes from 10% to 3%.

#### Parler ChatBot

Built a chatbot based on the comments from the leaked Parler dataset.  
Split and cleaned 30GB of ndjson files  
Used markovify to generate text.

### Employment History:

2011 – Pres	Associate Chair of Mathematics - <i>Georgia State University</i> 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 - <i>South Georgia State College</i> 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 - <i>U.S. Dept of Treasury, Customs Bureau</i> 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++  
VBA  
COBOL  
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  
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