

TIMOTHY A. BROWN

Atlanta, Georgia

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LinkedIn: [linkedin.com/in/brownt47/](https://www.linkedin.com/in/brownt47/)

GitHub: [brownt47.github.io/](https://github.com/brownt47)

Projects:

Machine Learning Application for HR

Created collaborative filtering recommendation model to reduce bias in the hiring process.

Successful Appeal of Property Tax Increase

Performed regression analysis using public real estate data for the district. Created report that convincingly showed the assessment was well above comparable properties.

Time-Series Forecasting of Student Demand for Course Offerings

Track historical trends in past semesters' enrollment data to plan future course schedules.

Optimizing Office Hours for Student Success

Analyze student schedules to maximize faculty availability when setting office hours.

Predictive Modeling of Placement Scores to Optimize Student Success

Measure past student placement scores against performances in the courses. Find placement score thresholds where students have a greater chance of passing courses.

Sports Data Analysis

Able to persuade fantasy football league members to increase the point values for sacks. Investigated NFL data to show the distribution of sacks is comparable to touchdowns.

Fake News Detector

Built a Fake News detector using a BERT NLP sentiment analysis model using a data set from Kaggle.

Employment History:

Associate Chair of Mathematics, Computer Science and Engineering

Georgia State University / 2011 – Present

Manage scheduling and staffing of courses; development and evaluation of faculty; project manager; conduct training sessions; resolve student-faculty conflicts; drafting reports; presentations; mentoring; academic coaching; teach math and statistics courses.

Assistant Professor of Mathematics and Computer Science

South Georgia State College / 2004 – 2011

Taught courses in mathematics, statistics, computer science and information technology.

Designed curriculum for math and computer science programs.

Responsible for assessments of students within entire college.

Technical Skills:

Python, R, MATLAB, SPSS, STATA, SAS, Octave, NVivo, Gretl

JAVA, C++, COBOL, VB.Net, VBA

SQL, SSIS

SciKit-Learn, Keras, TensorFlow, Ktrain, BERT, NLP, XGBoost. ANN, CNN

Adobe Creative Cloud Suite – PhotoShop, Xd

Tableau, GGplot2, Seaborn, UX/UI Design

Microsoft Office Suite: Word, Excel, Access, PowerPoint, Flow, Forms

Education:

M.S. Mathematics - University of California, Riverside

B.S. Mathematics and Computer Sciences - Greensboro College, North Carolina

Research Data Services Certification - Georgia State University

Professional Development:

Machine Learning – Stanford Online - Andrew Ng

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Completed November 2019

Certificate [link](#)

Tableau A-Z: Hands-On Tableau Training for Data Science

Completed: January 2020

Certificate [link](#)

Tableau 20 Advanced Training: Master Tableau in Data Science

Completed: March 2020

Certificate [link](#)

Python A-Z™: Python for Data Science With Real Exercises

Completed: April 2020

Certificate [link](#)

R Programming A-Z™: R for Data Science With Real Exercises

Completed: Aug 2020

Certificate [link](#)

Adobe Photoshop CC – Essentials Training Course

Completed: September 2020

Certificate [link](#)

Data Science A-Z™: Real-Life Data Science Exercises

Completed: November 2020

Certificate [link](#)

Natural Language Processing (NLP) with BERT

Completed: February 2021

Course [link](#)

Artificial Neural Network for Regression

Completed: January 2021

Course [link](#)

Machine Learning A-Z™: Hands-On Python and R in Data Science

Completed February 2021

Certificate [link](#)