

TIMOTHY A. BROWN

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Projects:

Machine Learning Application for HR

Utilized a collaborative filtering algorithm 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.

Forecasting 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 better plan office hours. Students cannot visit faculty if they are in another class. Created heatmaps showing when students are in and out of classes on campus.

Placement Score Models to Predict Student Success

Measure past student placement scores against performances in the courses. Find placement score thresholds where students have a greater than a 50% chance of success in the course.

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.

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

JAVA, C++

SQL

SciKit-Learn, Keras, TensorFlow

Adobe Creative Cloud Suite

Tableau

Education:

M.S. Mathematics - University of California

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