

# Joshua Grimes

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Data Scientist/Analyst with experience in machine learning, data engineering and statistical analysis, and a background in education and as an Air Transportation Supervisor (NCO) in the Air Force. Strong leadership, adaptability and problem-solving skills. Excel at translating technical concepts into clear and impactful communication. Sports enthusiast (fantasy football analytics), gamer (top 3% in Fortnite player), and long distance runner (4 marathons).

## TECHNICAL SKILLS

Python, SQL, Machine Learning (scikit-learn, Pandas, NumPy), Data Mining, Regression, Predictive Analytics, Statistics

## TECHNICAL PROJECTS

### Predicting College Exam Score Analysis - [GitHub](#)

Conducted linear regression analysis to predict college exam scores based on predictor variables

- Created multiple linear regression model to accurately predict exam scores using 20 features and over 6,500 records
- Identified significant predictors using results of correlation coefficients from one-hot encoded categorical variables
- Developed a valuable tool for stakeholders to use for decision-making and forecasting success for college students

### Twitter Sentiment Analysis - [Github](#)

Conducted natural language (NLP) processing with NLTK to tokenize and vectorize 9,000 tweets

- Extracted various sentiment metrics using TF-IDF and count to refine machine learning algorithm and identify trends
- Employed ClassifierChain and OneVsRestClassifier algorithm to model probability of tweet reliability
- Processed data to standardize text for classification, including, lemmatizing, tokenizing, and regex

### Box Office Film Analysis - [Github](#)

Developed SQL queries to identify trends in box office film sales.

- Extracted relevant data from over 75,000 database entries to gain valuable insights into influences of success
- Joined tables from multiple sources to identify maximization of revenue from over \$150B industry
- Performed data aggregation to summarize and group data to develop data-driven strategies for movie production
- Analyzed the relationship between movie attributes and box office performance to contribute to decision-making

## EXPERIENCE

Math and Science Teacher, **Thales Academy**, Raleigh, NC

07/2022 - 06/2024

- Developed middle and high school math and science department with 100% pass rate for 100+ students
- Created and managed budgets for Math and Science Departments using Excel.
- Implemented new personal fitness program while mentoring 20+ students as the after school run club staff advisor

Physics Teacher, **Lake Travis ISD**, Austin, TX

07/2021 - 06/2022

- Prepared comprehensive lesson plans and implemented engaging labs using college-level experimental design and scientific reasoning skills to prepare and save \$20k+ dollars in tuition for 170+ high school juniors and seniors
- Created interactive presentations using relevant software and technology (e.g. PhET, smart boards, etc.)

Biology Teacher, **Bastrop ISD**, Bastrop, TX

01/ 2018- 06/2021

- Highest End of Course scores of 1,000+ district students – increased scores by over 32% during tenure
- Administered assessments and provided leadership in the utilization of student performance data to customize and improve instruction as 1 of 3 district teachers chosen for development as a instructional “champion” in instruction
- Assigned to mentor and onboard new teacher hires in the responsibilities of the profession
- Advisor of the National Honor Society, guiding 50+ students to develop community service projects for community

Air Transportation Supervisor, **Air Force Reserves**

2008 - 2012

- Supervised 12-person shifts during deployment in support of Operation Enduring Freedom while managing the transportation of 1 million pounds of explosives and supplies using safety, quality control, and security measures
- Trained and evaluated over 25 new airmen in the procedures and practices of becoming journeyman of the craft

## EDUCATION

**Flatiron School**, New York, NY

09/2024

Immersive 600+ hour Data Science program.

**North Carolina State University**, Raleigh, NC

12/ 2013

Bachelor of Science. - Fisheries, Wildlife, and Conservation Biology

**Community College of the Air Force** - Transportation Leadership

08/2014