Adam Swan

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Objective: I am a data scientist who seeks to make the world a better place through exploration and analysis. My years of experience in teaching have equipped me with the resilience and compassion to communicate new ideas effectively and foster a positive team focused environment using Python, machine learning, and statistics to maximize stakeholder outcomes.

Skills: Python, Pandas, Matplotlib, Seaborn, NumPy, Scikit-learn, SciPy, BeautifulSoup, Request, Git, Github, Keras, Tensorflow, and PySpark.

Experience

Assistant Director of Bands 2014-2021

Pflugerville High School (August 2019 - June 2021), *Pflugerville Middle School* (August 2018 - August 2019), *Brazoswood High School*, (August 2014 - 2018)

- Planned, scheduled, coordinated, and executed 50 rehearsals for over 60 students per month leading up to community performances and state evaluations.
- Performed 3-4 informational presentations annually to recruit and attract prospective stakeholders.
- Educated students daily on new skills - playing their instruments from square one, maintaining equipment, and working effectively within a team.
- Led fellow educators in expanding and diversifying teaching strategies to better reach and connect with our colleagues and students.
- Managed a budget of $200,000 to ensure student's needs were met.
- Maintained and allocated $750,000 worth of equipment and inventory.

Projects:

1. **Subreddit Post Origin Classification using NLP and ML**
    - Scraped data using Reddit's API to identify, between two similar subreddits, which sub the post originated from using classification models and NLP.
    - Best model out of five evaluated being a random forest classifier scoring 80% accuracy
2. **Predicting Wildfire Probability in California**
    - Scraped data using World Weather Online's API to pull weather data for every month in every county in California for the last 13 years and aggregated and resampled data to get rolling averages to train the model.
    - Best model out of four evaluated was a random forest classifier achieving 88% accuracy and 84% precision
3. **Vegetable Recommender and Water Usage Estimator Apps**

Education:

General Assembly - Data Science Immersive August 2021 - October 2021

- 12-week Data Science intensive to develop skills using Python and its many libraries to effectively visualize, analyze, and model data from regression and classification problems to advanced image classification using neural networks.

Ohio University - Bachelors of Music Education August 2008 - December 2013