

Alexander Fioto

DATA SCIENTIST

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Raleigh, NC 27604

[Github](#)

[Portfolio](#)

Data scientist with 8+ years of entrepreneurial experience who excels at machine learning, data storytelling, natural language processing and deep learning techniques. I enjoy the crossovers of data and music, and see data as a tool for effective strategizing and problem-solving. Seeking to leverage my small business and music industry expertise in diverse applications of data science.

TECHNICAL SKILLS AND LIBRARIES

- **Code:** Python | SQL | HTML | Knowledgeable in R and Scala
- **ML / Deep Learning:** Scikit-Learn | Tensorflow | Keras | SpaCy | NLTK | Gensim
- **Data Analytics:** Pandas | NumPy | SciPy | StatsModels | Matplotlib | Plotly | Seaborn | Tableau
- **Stats Techniques:** Inferential Statistics | A/B Testing | Sampling | Hypothesis Testing
- **ML Techniques:** Regression | Classification | Feature Engineering | Predictive Modeling | Forecasting | Clustering
- **Data Management:** Relational Databases | Web Scraping | Data Mining
- **General Tools:** Microsoft Excel | GitHub | Flask | AWS

PROJECTS

Generative Chatbot

[Github Repo](#)

[Demo](#)

- Developed a generative chatbot trained on television script dialogue
- Employed transfer learning from Open AI's open-source GPT2 natural language model
- Designed custom python class to handle control flow during user interaction
- Trained and incorporated random forest classifier for character prediction of user input
- Embedded episode recommender based on user-input utilizing BERT word embeddings
- Merged with IMDB's API to display plot summaries as well as a direct link for viewing

Decoding COVID

[Github Repo](#)

[Markov Model App](#)

[Visualization by State](#)

- Analyzed mask usage and sentiment correlation to COVID cases and political party affiliation
- Deployed via Heroku, my team created a suite of applications for tracking US COVID rates
- Applied Hidden Markov Model to identify regime changes in daily case rates
- Created an interactive data visualization tool to compare infection rate between US states

Spotify Engine

[Github Repo](#)

[The App](#)

- Delivers custom song recommendations based on pulled user data
- Deployed Spotify Recommendation Engine to Heroku Cloud Platform utilizing Flask
- Navigated Spotify API to enable user authentication

EXPERIENCE

General Assembly

Aug-Nov 2020

Data Science Fellow

- Obtained certification from 500+ hour immersive fellowship in Machine and Deep Learning
- 2nd place in cohort Kaggle Competition predicting housing prices using sci-kit learn pipelines

Performance

Contractor

2016-Present

Business Owner

- Create and execute contracts for local and national performing arts organizations
- Assess and advise budgets, pay scale and working conditions. Consult for hiring managers

NC Symphony

2012-2020

Associate Principal Trumpet (2020)

4th / Utility Trumpet (2012-2019)

- Performed with the North Carolina Symphony in concerts, recordings and broadcasts
- Collaborated with top industry professionals and Grammy-winning artists

EDUCATION & CERTIFICATIONS

Rice University | Houston, TX

Master's Degree, Performance, 2011

The University of Michigan | Ann Arbor, MI

Bachelor's Degree, Performance, 2009

- General Assembly DSI Certification
- Tensorflow Developer Specialization
- Tensorflow Natural Language Processing
- Tensorflow Convolutional Neural Networks
- Tensorflow Time Series Prediction
- AWS Fundamentals: Cloud Practitioner