Michael Curry

DATA SCIENTIST

TECHNICAL SKILLS

PROGRAMMING EXPERTISE:
Python, SQL, HTML

PACKAGES & FRAMEWORKS:
NumPy, Pandas, Scikit-learn , SciPy, Keras, Flask, Plotly Dash, Matplotlib, SpaCy, SQLite, PostgreSQL

SPECIALTIES:
Data analysis, Linear and multivariate regressions, Predictive modeling and analytics, Data visualization, K-cluster analysis, Machine learning products, Natural language processing, Image recognition, Git flow

DATA SCIENCE PROJECTS

LIVE IN THE BEST PLACE | DEPLOYED APP

- Contributed model to compare and sort cities by user criteria for Web App team project
- Deployed Flask API with end-points to a Python sorting model and data visuals. Coordinated with back-end developers to synchronize respective data-bases

TESS PLANET FINDING APP | PROJECT REPO

- Developed application of Neural Network and XGBoost models to identify planet bairing stars
- Trained model on combined data from CalTech and STScI. Created Flask App with ProstgreSQL data-base using Object Oriented Programming technique.

SIMPSONS QUOTE FINDER | FULL STORY

- Designed search engine using a k-Nearest Neighbors model, deployed as a flask API, and a Homer quote generator using a Convolutional Neural Network
- Integrated use of Natural Language Processing, SpaCy, TF-IDF

EBOLA COMMUNITY RISK ANALYSIS | DASH APP

- Built Dash App with analysis of Redcross survey data to determine most prominent risk factors for Ebola infection.
- Isolated 79 factors by analyzing Permutation Importance and Shapley Values from a XGBClassifier model

WORK EXPERIENCE

PROGRAM COORDINATOR | F.P. ACADEMY

- Orchestrated program integration between: blended-learning curriculum; credit-recover; teen moms; rehabilitation; reintegration; counseling
- Analyzed student performance data and created intervention program

MATH INSTRUCTOR | METRO EARLY COLLEGE

- Collaboratively designed cross-curricular projects to apply learning content to real-world problems: Infant Mortality; Opioid Crisis; Heart Disease
- Developed differentiated math curriculum
- Robotics Coach / Mentor

MATH & TECH INSTRUCTOR | TAOS ACADEMY

- Analysed data from online curriculum to systemize targeted tutoring and small group interventions
- Developed curriculum for hands-on technology lab
- Founded school robotics team

FIELD PROGRAM COORDINATOR | R.M.Y.C.

- Coordinated between project partners and Youth Corps Crews throughout Northern New Mexico
- Responsible for monitoring project progress and federal compliance

EDUCATION

LAMBDA SCHOOL

Intensive training for a career in applied statistics and machine learning. Nine month project-based immersion in:

- Statistics
- Computer Science
- Data Anaylsis
- Predictive Modeling
- Data Engineering
- Machine Learning

ST. JOHN'S COLLEGE

B.A. in Liberal Arts: History of Math; Philosophy

- Physics Laboratory Assistant
- National Science Foundation Intern

LINK TO COMPLETE DATA SCIENCE PORTFOLIO