

# 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 PostgreSQL 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 systematize 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 Analysis
- 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](#)