

JACK VESSA

DATA SCIENTIST

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SUMMARY

Data Scientist and former Teach for America educator with a passion for using data to solve complex problems, educate others, and improve people's lives.

SKILLS

Coding Languages

Python
SQL
HTML / CSS
C++
UNIX

Machine Learning

Linear Regression
Logistic Regression
Gradient Boosting
Random Forest
Recommender Systems
Neural Networks
LDA Topic Analysis
Natural Language Processing

Tools/Technologies

A/B Testing
Amazon Web Services
APIs
Data Mining
Data Cleaning
Data Visualization
Docker
Flask
GitHub
MongoDB
NumPy / Pandas
Scikit-Learn
Spark
Tableau

EXPERIENCE

Galvanize *Data Scientist in Residence*

San Francisco, CA
2019 to Current

Projects:

Galvanize Groups: www.GalvanizeGroups.com | [GitHub Repo](#)

- Developed software tool to generate student groups for coding assignments and case studies
- **Tools/Tech:** Python, Scikit-Learn, KMeans Clustering, Flask, AWS Elastic Beanstalk

Responsibilities

- Instruct 24 Data Science students in Python, machine learning and statistical inference
- Plan and facilitate weekly Python and SQL interviewing sessions

Data Science Fellow

Projects:

Charity Recommender: www.CharityRecommender.com | [GitHub Repo](#)

- Developed and deployed a web application to connect people with charitable organizations
- Leveraged Natural Language Processing to create item-to-item similar recommendations
- **Tools/Tech:** Python, Gensim LDA, Flask, AWS Elastic Beanstalk, Tableau Visualizations

Genius Groups

- Developed web application empowering teachers to group students using assessment data
- **Tools/Tech:** Python, Scikit-Learn, KMeans Clustering, Flask, AWS EC2

Case Studies:

- Built a fraud detection model for event company using logistic regression
- Built a movie recommender using matrix factorization & collaborative filtering ensemble
- Predicted user churn for ridesharing company using gradient boosting classification model
- Predicted heavy equipment auction prices using multiple linear regression

Teach for America *Corps Member, Rising Leaders Fellow*

San Francisco Bay Area, CA
2017 to 2020

- Selected from more than 45,000 applicants to join the national teacher corps of 6,000 recent college graduates
- Trained in TFA "boot-camp" to learn teaching strategies, educational pedagogy, and systemic obstacles to learning
- Led STEM track professional development for 30 corps members on building student confidence and accountability

Making Waves Academy *AP Statistics and Algebra II Teacher*

Richmond, CA
2017 to 2019

- Instructed, supported, and mentored 240 high school students
- Led professional development for 50 faculty and school leadership members on implementing digital gamification resources in classrooms
- Advised weekly school coding club meetings teaching HTML and CSS fundamentals
- Increased student state test (SBAC) scores by 16.3% and doubled AP Statistics passing rate

ACTIVITIES

Code Ignite *Instructor*

2016 to 2017

- Taught 20 students in CS fundamentals and facilitated development of Scratch games

VandyHacks *Sponsorship Team*

2015 to 2017

- Secured more than \$63,500 from company sponsors for annual campus Hackathon

EDUCATION

Loyola Marymount University

2019

Master of Arts, Urban Education

Thesis Research: Digital Gamification in the STEM Classroom

Vanderbilt University

2017

Bachelor of Science, Engineering Science

Minors: Computer Science, Human & Organizational Development