

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
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

- Developed software tool to generate student groups for coding assignments and case studies

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, 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 *Rising Leaders Fellow, Corps Member*

San Francisco Bay Area, CA
2017 to Current

- 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 a professional development session 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