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
Java

Tools/Technologies

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

Machine Learning

Linear Regression
Logistic Regression
Gradient Boosting
Random Forest
Matrix Factorization
Neural Networks
Regularization
LDA
Natural Language Processing

EMPLOYMENT

Galvanize
Data Scientist in Residence
San Francisco, CA
Dec. 2019 to Current

- Instruct and support 24 Data Science Immersive students in Python, machine learning and statistical inference
- Develop software tools for student grouping, plan and facilitate weekly coding and interviewing workshops

Data Science Fellow
Aug. 2019 to Nov. 2019

Projects:

Charity Recommender: www.CharityRecommender.com | GitHub Repo

- Built charity recommendation web application to connect people to new and impactful charities based on previous donations, providing options to identify local and similar charities based on specified categories.
- **Tools/Tech**: Python, Gensim LDA, Flask, AWS Elastic Beanstalk, Tableau Visualizations

Genius Groups:

- Built a web application to assist teachers in forming student groups from assessment data.
- **Tools/Tech:** Python, KMeans Clustering, Flask, AWS EC2

Case Studies:

- Built a fraud detection model for event company using logistic regression and deployed website on Flask
- Built a movie recommender using matrix factorization & collaborative filtering ensemble
- Predicted user churn from ridesharing company data 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
June 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 1st and 2nd year corps members on building student confidence and accountability in the math classroom

Making Waves Academy
AP Statistics and Algebra II Teacher
Richmond, CA
Aug. 2017 to June 2019

- Taught, and individually supported 200+ 10th-12th grade students in progressive charter school environment
- Led a professional development session for 50 faculty, staff, and school leadership team members on the implementation of digital gamification resources in classrooms
- Increased student AP-Statistics passing rate by 200%

ACTIVITIES

VandyHacks - *Sponsorship Team, Participant*
Nov. 2015 to May 2017

- Secured more than $63,500 from company sponsors, optimized sponsor experience and engagement

EDUCATION

Loyola Marymount University
2017 to 2019

Master of Arts, Urban Education
Thesis Research: Digital Gamification in the STEM Classroom

Vanderbilt University
2012 to 2017

Bachelor of Science, Engineering Science
Minors: Computer Science, Human & Organizational Development