

Raffi Mesrobian

Data Scientist

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SKILLS

Data Science: Statistical Modeling, Hypothesis Testing, Bayesian Statistics, Bootstrapping

Machine Learning: Linear/Logistic Regression, Random Forests, Boosting, kNN, MPL, CNN, Transfer Learning, NLP, K-Means, Recommenders, Clustering, SVD, Text-Classification

Big Data: Spark, MongoDB, AWS, Docker, BeautifulSoup, SQL

Python Programming: Pandas, NumPy, SciPy, SciKit-Learn, TensorFlow, Matplotlib, JupyterLab, VS Code, Git

PROJECTS

Predicting Engagement: Social Network Analysis & Deep Learning Techniques

- Built two bots to scrape my Instagram network, applying graph theory to better understand it
- Deployed an AWS EC2 g4dn instance for Xception, VGG-19, and NIMA transfer learning and feature extraction
- Created a multi-input gradient boosted random forest model, which forecasted normalized engagement (1.78 MSE)

Rainforest Connection Species Audio Detection

- Applied a custom-built convolutional neural net on mel spectrograms to predict bird and frog species
- Achieved 86% accuracy on my predictions for 24 animal species using 1,088 one-minute audio recordings
- Leveraged TensorFlow, Keras, Librosa, Pandas, and NumPy to build a scalable machine learning pipeline

Chess Openings Exploration

- Investigated over 20,000 chess games and applied statistical modeling on opening strategies
- Found significant differences in winning percentage and opening strategy by player rating and piece selection

SELECT EXPERIENCE

Founder

Moda Labs

2019 - 2020

Los Angeles, CA

- Advised clients on key mobility objectives and assessed in-house A/B testing methodologies
- Built mission-critical data pipelines to measure the effects of new operational strategies
- Projected to secure funding of \$750K by April 2020, which was paused due to COVID-19

Regional General Manager

Skip Transport, Inc.

2018 - 2019

Los Angeles, CA

- Worked closely with founders to assess and define the business / ops model and create the strategic roadmap
- Identified and developed business cases for short- / long-term growth and presented findings to leadership team
- Led a cross-functional anti-theft product build that improved asset turnover rates by 40%

Business Analytics Manager

Ofo, US

2017 - 2018

Los Angeles, CA

- Led operational tool builds with Engineering and Product, greatly improving field ops performance in US Market
- Developed SQL queries and dynamic dashboards that streamlined KPI and OKR reporting for senior leadership

Private Equity Associate

Vance Street Capital

2015 - 2017

Los Angeles, CA

- Participated in 5 transactions: 3 acquisitions, 1 portfolio company add-on, and 1 portfolio company restructuring
- Performed due diligence, modeling, and conducted research to develop thesis and recommendations for VSC IC

EDUCATION

Data Science Immersive, Galvanize, Inc.

750+ hours of individual and paired python projects focused on machine learning

2020 - 2021

Los Angeles, CA

Southern Methodist University, Cox School of Business

B.B.A. Finance, Minors in Economics, Chinese (3.6 GPA)

2005 - 2009

Dallas, TX

INTERESTS & HOBBIES

Interests: Urban design, social equity, photography, chess, craft beer, the Milwaukee Bucks, hiking, camping, and cooking