

Jared Keil

Data Scientist

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SKILLS & KNOWLEDGE

Software and Programming | Python (NumPy, SciPy, Pandas, Scikit-Learn, Keras with Tensorflow, Matplotlib, Seaborn), SQL, Unix, HTML, C++, MongoDB, APIs, Web Scraping, Data Cleaning, A/B Testing, Git, Docker, PostgreSQL, AWS S3 & EC2, Spark, Flask

Math and Statistics | Frequentist Inference, Bayesian Inference, Linear Algebra, Probability, Hypothesis Testing

Machine Learning | Regression, Tree-Based Models, Ensemble Models, Regularization, Boosting Models, KNN, NLP, PCA, SVD, LDA Topic Analysis, Data Augmentation, Neural Networks, Recommender Systems, CNNs

DATA SCIENCE PROJECTS

Sourcing Sound: *Identifying everyday sounds*

- ♦ With raw audio data, conducted data augmentation (time shift, windowing), feature extraction (FFT, log-scaling), dimension reduction (PCA), and tuned a Scikit-learn gradient boosted classifier to predict sound source.

U.S. Mental Health Services: *Geographic Breakdown of Mental Health Services for At-Risk Groups in the U.S.*

- ♦ Found that CA facilities scored significantly lower than national average, used hypothesis testing to validate results of a Mann-Whitney U Test.

Case Studies:

- ♦ Created NLP pipeline in Python for sentiment analysis of movie reviews to determine review polarity.
- ♦ Built a classification model to predict user churn for a ride-share app, used gridsearch cross validation, confusion matrix, profit curve to tune hyperparameters based on marketing budget.
- ♦ Performed EDA on scraped JSON Twitter data from the 2016 French election.
- ♦ Forecasted auction price for heavy machinery equipment with linear regression.

EXPERIENCE

Galvanize Data Science Immersive Program | San Francisco, CA Dec 2019 — Mar 2020

- ♦ 3-month, 700+ hour data science immersive training program covering core data science areas and skills including probability and statistics, databases, machine learning algorithms, and data visualization.

Berkshire Hathaway Homestate Co. | Workers' Compensation | San Francisco, CA Mar 2019 — Nov 2019

First Report Specialist

- ♦ Exceeded performance goals by 70%, led team in claim setup, increased productivity to all-time high.
- ♦ Reduced intake time of insurance claims, saving the company thousands of dollars on claim payouts.

Music Reports, Inc. | Music Royalties & Licensing | Woodland Hills, CA 2016 — 2019

Research Assistant

- ♦ Introduced computer processes to automate department tasks, minimizing turnaround on deliverables.
- ♦ Cleaned data for over 60 monthly clients to ensure compliance and successful audits.
- ♦ Tested SAAS product Cuetrak in collaboration with the engineering department for TV industry clients.

Chromatik | Sheet Music App | Santa Monica, CA 2014 — 2016

Transcriber (Sep 2015 — Aug 2016) | Creative Content Intern (Apr 2014 — Dec 2014)

- ♦ Expedited content creation by contributing highest output and accuracy level among transcription team
- ♦ Developed custom macros for music notation software, which boosted team productivity.
- ♦ Generated insight from global music trends and user feedback to directly influence product choices.

EDUCATION

University of California, Los Angeles

Jun 2015

- ♦ B.A. in Ethnomusicology
- ♦ Honors: "Friends of Jazz" Scholarship 2011-15 | Gluck Performance Outreach Fellow 2014 |