Joseph Lane

Data Scientist

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Skills

Roles:	Data Science | Data Analytics | Machine Learning | Data Visualization | Web Development
Software:	Tableau | Excel | Matlab | Jira | GitHub | Jaspersoft
Languages:	Python | R | PostgreSQL | SQLite | RedShift | C++ | HTML | CSS | JS | JRXML
Packages:	sklearn | keras | matplotlib | ggplot2 | olsrr | dplyr | tidyr | plotly | scipy | numpy | pandas

Work experience

Data Scientist | Full Time
June 2022 - November 2022 (6 Months)

Promontory MortgagePath (Company Shutdown)

- Led the development of forecasting models for closed loans and predicting loan funnel outcomes through Python and BI reports.
- Constructed new metrics and reports to measure the quality of relationship among clients using RedShift, PostgreSQL, Python and Jaspersoft Server. Ultimately, helping the sales team maintain each client's loan pipeline, Promontory MortgagePath underwriting/closing performance, and overall client satisfaction.

Data Analyst | Full Time
November 2021 - May 2022 (7 Months)

OMD Worldwide

- Automated monthly marketing reports through Python scripts, saving an average of ~15-20 hours a month.
- Used various analyses on over 500 marketing variables across all Clorox subsidiaries in order to verify marketing strategies on Traditional Television, Internet Marketing, Affiliate Marketing, and many more campaigns.

Data Scientist Consultant | Contract
May 2021 - September 2021 (5 Months)

Lawrence Livermore National Labs

- Saved the Ground Penetrating Radar (GPR) team over 3 months of programming by customizing 15 features in a Machine Learning pipeline and established investigative methods for future GPR research.
- Reduced time needed for exploratory analysis by several months through verifying best radar performance among various radar types.
- Built a machine learning pipeline in Python for comparing the performance of GPR technologies, used for bomb detection. It included PCA reduction, logistic regression, model storage, k-means clustering, precision-recall curves, AUC-ROC's, Andrew's curves, and confusion matrices.

Web Developer | Part Time
June 2020 - August 2022 (2 Years 2 Months)

Greiner Agencies Inc.

- Eliminated CEO intervention by adding automated error correcting in uploaded data.
- Reduced data download and wrangling times by ~75%.
- Automated real-time information to CEO on relevant seasonal changes as data is evaluated.
- Managing and maintaining QOPBASEBALL.COM through HTML, CSS, JavaScript, R, and SQLite on a Linux server. All seasonal data is wrangled and turned into summary statistics for the QOP calculator.

Data Analyst | Part Time
May 2018 - August 2021 (3 Years 3 Months)

Biola University

- Doubled analytics team membership and trained unexperienced members to become full contributors in 2 months.
- Team analyst on a variety of MLB controversies through a patented statistic (Quality of Pitch—QOP™).
- Team lead in the investigation on the 2017 and 2019 home run controversies, quantifying pitch deception, predicting injury susceptibility in pitchers, and illegal sign stealing detection. Resulting work and papers produced 4 publications by the world's most famous MLB publishers.

Education

Dual B.S. in Applied Math (Data Science Con.) and Western Classics   May 2017 - May 2021
Biola University

- Analytic lead for various consultations through the Biola Quantitative Consulting Center.
- Discovered potential operating cost reduction of $500,000 through Design of Experiment and financial analysis around the donation methods of Open Doors USA. (Jan. - May 2021)
- Reduced ambiguity on over 5 fundamental factors through survey validation on business assessment diagnostics for the V.P. of Association for Strategic Planning. (Jan. - May 2021)
- Founder and president of the Math club and the Philosophy/Theology club which brought together over 40 undergrad and graduate students.

Publications and Additional Awards

- SIGN STEALING REPORT CORROBORATES EVIDENCE AGAINST ASTROS AND RED SOX. The Orange County Register Aug 19, 2020.
- EXPLAINING THE MLB HOME RUN RECORD OF 2019 WITH QUALITY OF PITCH. The Hardball Times. October 21, 2019. FULL REPORT HERE. (Keynote presentation for CBU's ASA meeting of 2020)
- EXPLAINING THE MLB 2017 HOME RUN RECORD WITH QOP The Hardball Times. May 8, 2018.
- Graduate of The Torrey Honors College.