Parker Barnes

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WORK EXPERIENCE

Nursa   **May 2022 – Present**
Data Scientist   *Murray, UT*
- Trained and deployed a stacked machine learning model as an API using docker and AWS. Outputs live predictions of job request probability and writes to a database
- Designed an interactive R Shiny dashboard that provides geographic view of clients, users, and their individualized metrics. Shared with highest levels of leadership (CEO/COO), used to track both historical trends and current growth opportunities
- Trained a personalized recommendation engine that optimizes users' job feeds. Embedded in a shiny app to demo to be approved for production
- Automated Stripe financial statements using a low-cost R
- Developed internal R package that interfaces with proprietary databases

PILYTIX   **Dec 2021 – May 2022**
Data Scientist   *Austin, TX*
- Remodeled a client's A.I. pipeline by revamping SQL scripts to more accurately capture useful variables
- Explored and visualized client Salesforce data to assess their predictability
- Trained and evaluated Bayesian hierarchical models to effectively predict "wins" in sales opportunities
- Contributed to proprietary R packages and analysis framework to facilitate more efficient and standardized pipelines across clients

International Academies of Emergency Dispatch (IAED)   **May 2021 – Dec 2021**
Data Analyst   *Salt Lake City, UT*
- Processed data requests for various stakeholders by querying databases and visualizing in Power BI
- Re-engineered automated data pipelines for public-facing dashboards. Applied STAR Schema principles to data structures, effectively reducing memory usage and computation by 90%
- Automated agency data monitoring process, a process that normally took 1-2 hours now takes only 5 minutes

EDUCATION

University of Utah, Eccles School of Business   **May, 2022**
MS, Business Analytics   *Salt Lake City, UT*
- 3.95/4.0 GPA, Lean Six Sigma Green Belt Certification
- Gameday Twitter Ad Competition
- Capstone Project: Interactive web app utilizing ML to predict customer conversion

Brigham Young University   **Dec, 2020**
BS, Statistics (Emphasis, Data Science)   *Provo, UT*
- Minors, Mathematics, Computer Science
- 3.80/4.0 GPA, Phi Eta Sigma Honor Society, Mu Sigma Rho Statistics Honor Society

CERTIFICATIONS, SKILLS & INTERESTS

- **Certifications:** Lean Six Sigma Green Belt
- **Languages:** R (tidyverse, tidymodels, ggplot2, shiny, targets, plumber, DALEX, renv), python (pandas, sklearn,

matplotlib, numpy), SQL (Postgres/Redshift, T-SQL, dbplyr), C++, Java

- **Supervised Machine Learning:** linear/logistic regression, decision tree, random forest, xgboost, KNN
- **Unsupervised Methods:** K-means clustering, PCA, UMAP
- **Data Visualization/Reporting:** ggplot2, plotly, matplotlib, seaborn, PowerBI, shiny (rhino, golem), RMarkdown/Quarto
- **Other Skills:** RStudio IDE, Package development (devtools, usethis), Github, Docker, AWS, Excel, pipelines (targets), recommendation engines (RankFM)
- **Interests:** Running, hiking, skiing, books, dogs, badminton, spikeball, meditation, budgeting/finance, economics, current events