CAVAN DONOHOE

Looking to improve your company's data workflow

I have a level of expertise in both R and Excel that helps me both manipulate and analyze data as well as automate monthly tedious tasks. With the mind of a tutor, I make sure to document everything and answer questions quickly and efficiently when I explain my methodology to coworkers or clients. Let's have a chat so I can help your data from beginning to end.

💼 PROFESSIONAL EXPERIENCE

Senior Data Scientist
GRAIL 📍 Menlo Park, CA

February 2021 | August 2024

- Authored and maintained new R Packages used on cross production within entire company
- Worked extensively with R (tidyverse, dplyr, ggplot2) and SQL (PostgreSQL) for data wrangling, validation, and integration across large-scale clinical datasets
- Created new R Markdowns to display hundreds of TFLs (Tables, Figures, and Listings) in order to assess clinical trial accuracy
- Created and documented new Derived Variables for ongoing studies using git/Gitlab for collaboration, R for coding, and AWS S3 for cloud storage and data management using CDISC standards (SDTM, ADaM, CDASH) for clinical trial data management (raw EDC data)
- Created a timeline visualizer for significant cancer screenings and events leading to an eventual diagnosis using R Shiny Output
- Maintained complete and auditable programming documentation for analysis of clinical studies
- Provided statistical programming support to data cleaning and locking activities, pre-defined and exploratory analysis, formal reports, publications, presentations, and new statistical methodologies
- Worked closely with biostatisticians to create data and analysis program specifications based on the statistical analysis plan (SAP) and Statistical Process Control
- Contributed to the development, documentation and maintenance of a reusable programming code library while devoloping reproducible R pipelines integrating statistical modeling, simulation, and visualization for trial-level analyses
- Wrote unit tests to ensure programmatic updates will be compatible to previous versions
- Utilized R programming to analyze survival data and assess risk factors
- Managed the installation and configuration of R packages across multiple environments, ensuring compatibility and stability
- Performed jackknife and bootstrap resampling simulations in R to assess model robustness, estimate uncertainty, and support clinical trial design evaluations.

Reporting Analyst
24 Hour Home Care 📍 El Segundo, CA

April 2020 | January 2021

- Automated a weekly report that calculates the Accounts Receivable aging for our company. This weekly report is now being calculated in R and automatically sends an email formatted in HTML with CSS to show summary tables and a highlighted list of achievements; saved 5 hours of time every week
- Imported, Cleaned, Manipulated, and Visualized data for ad hoc dashboard requests
- Assumed role of Analytics team liaison to other teams within the company
- Automated batch invoice emails via R for use between teams to run
- Connected R to Azure Web App to allow for script driven data exports now allowing for automated exports saving teams hundreds of hours per year

CONTACT INFO

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in linkedin.com/in/cavan-donohoe/

📞 (805) 404-3321

SKILLS

Expert in Microsoft Excel and Wide Knowledge of VBA (pivot tables, vlookups, sumifts, etc.)

Expert in R (tidyverse, RODBC, blastula (email automation), openxslx, APIs, automation, data manipulation, R Markdown, bootstrap/jackknife methods, etc.)

Expert in SQL (PostgreSQL)

Literally made this resume and website using R

Actuarial Analyst

HMSA   📍 Honolulu, HI

- Automated the CRG (Community Rated Groups) Band Renewal Process in R (8 hour process that now takes 1 minute)
- Developed the demographic and plan risk factors for AMS and Underwriting Department (now automated in R)
- Worked on mandatory ACA rate filing
- Automated the Mental Health Parity process for hundreds of plans
- Automated the Forecasting Model with user friendly Excel and R integration for obtaining data and easing the process
- Automated a tedious CRG proposal process that previously took an hour and now takes 4 seconds
- Explained processes with easily read documentation and hosted meetings to explain modeling changes and methodologies
- Fit empirical distributions to theoretical distributions using Kolmogorov-Smirnov tests and Maximum Likelihood Estimation in R while splitting every single partition of a sample in a time efficient manor

🎓 EDUCATION

2018

Bachelor of Science

University of California, Irvine   📍 Irvine, CA

- Major in Mathematics
- Minor in Statistics

🏅 AWARDS

BAS UCLA Case Competition Finalist (Project Presentation and Project Memorandum)

🗂 CREDENTIALS

Passed 3 Actuarial Exams