ARDALAN MIRSHANI

I am a Data Scientist and Statistical web app developer with an interest on creating scientific tools, reproducible workflows, and automating repetitive tasks that arise during all data wrangling, exploring, visualizing, modeling, and reporting processes.

PROFESSIONAL EXPERIENCE

Present 10-2019

Sr Expert Data Science

Novartis

- Cambridge, MA
- · Creating generalizable and reusable statistical tools, advance interactive visualizations, automation workflows, high performance computing, scientific reproducible templates and reports for analytics activities.
- · Developing production-grade shiny apps, modules, and R-packages to support exploratory machine learning projects.
- · Designing educational training materials and consulting for internal quantitative scientists.

08-2018 05-2018

Shiny app developer (Internship)

Novartis (Recommendation)

• Cambridge, MA

· Implementing modularized R Shiny apps for analyzing clinical trials.

2016

Statistical Consultant

PSU Statistical Consulting Center

Ouniversity Park, PA

· Applications of statistical methods in the consulting environment.



EDUCATION

2019 2014

PhD, Statistics

Pennsylvania State University

Our University Park, PA

· Thesis: Regularization Methods in Functional Data Analysis

2013 2011

M.Sc, Mathematics

Sharif University of Technology

O Iran

2011 2006

B.Sc, Electrical Engineering

KNTU

• Iran

CONTACT INFO

- ardeeshany@gmail.com
- mirshani.com
- nardeeshanv
- in mirshani



Web development:

Expert in {Shiny} + HTML/CSS/JS, {blogdown}

Automation Environment:

R-pkg dev, Workflow pkgs {usethis, golem, targets}, {renv}, {testthat}, {profvis}, chatty functions

Reproducible Reporting: {rmarkdown}, {bookdown}, {pagedown}, Latex

Interactive Visualizations: ggplot2, htmlwidgets pkgs {DT, Plotly, Leaflet, etc.}, {gt}

Q Data Exploration and Wrangling: Fan of {tidyverse}, Efficient coding advocate.

Modeling and Machine Learning: {Tidymodels} Framework

l' Workflow: git, GitHub, Travis/Runner, agile

■ FREELANCE EXPERIENCE Now **Brand Loyalty Lab** A series of research and development on retail market brand loyalty. 2019 2018 **RAAVI** Other Languages: A complicated modularized Shiny app for analyzing students' scores. 2017 **r** Python: My second language, {reticulate} **CERTIFICATES** Julia: Exploration **Data Science** 2020 **__ Script**: Bash DataCamp (Certificates) 2018 • Exploring +40 Datacamp courses on the state of the art pkgs in Data wrangling, visualizing, modeling, reporting, Big data, databases, and more for thinking and coding more efficient. RESEARCH EXPERIENCE Cheatsheet Parallel Computing: 2020 Adaptive function-on-scalar regression with a smoothing elastic net Contributed to RStudio Cheatsheet Submitted to JMVA (Article) 2018 · {AFSSEN} R-Package: A very fast coordinate descent algorithm (C++ backend) for running function-on-scalar regression in high-dim data. 2019 Formal privacy for functional data with gaussian perturbations Everyday Learning: ICML 2019 (Article) R Community: · Developed a Shiny app for exploring privacy in 3D facial data. Following #TidyTuesday, #Rstats, #dataviz, #RLadies, Screencasts ** TEACHING EXPERIENCE 2008 Lecturer: Probability, statistics and Calculus **Q** Iran Tehran Virtual University T AWARDS 2020 **CD&A Best Poster Presentation Awards** A Shiny app for exploring safety and efficacy of Heme data $\,igoplus\,$ Novartis

Rao Prize Best Poster Presentation Awards

35th Iranian National Mathematics Competition for university

Privacy in functional data analysis

Silver Medal

2017

2011

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Source code from nstrayer

Last updated on 2020-11-24.

PSU

♀ Iran