Matt
MATHEW W. MCLEAN
(he/him)

- Australian Work Rights: Subclass 186 Visa
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Experienced Data Scientist and Scrum Master with a PhD in Operations Research and expertise in statistical computing, machine learning, and Agile methodologies. Proven track record in leading teams, optimizing processes, and driving continuous improvement through hypothesis and test driven development.

EDUCATION

Ph.D. in Operations Research

Dissertation: On Generalized Additive Models for Regression with Functional Data

Cornell University - Ithaca, NY, USA

2008 – 2013

B.Sc. (Hons.) in Statistics

University of Manitoba

Winnipeg, MB, CAN

2004 – 2008

WORK EXPERIENCE

Senior Data Scientist - Displayr

Designed features for BI and market research software, contributing to the company's growth from 20 to 100+ employees and nearly $14 million in ARR

2022 – 2024

Data Science Team Lead - Displayr

Lead a team of data scientists to write fast, easy-to-use tools for text analysis, machine learning, regression, and choice modeling using Scrum.

2019 – 2021

Computational Statistician - Displayr

Maintained/co-authored a suite of $40+$ R packages for statistical modeling, visualization, data cleaning and integrating with various web APIs.

2017 – 2019

SKILLS

Programming

- R
- Python
- JavaScript
- SQL
- stan
- git

Other tools

- Agile Methodologies
- Circle CI
- docker
- Snowflake
- Reproducible Research
- JIRA

CERTIFICATIONS

- SAFe® Practice Consultant (SPC)
- SAFe® Release Train Engineer (RTE)
- Professional Scrum Master II (PSMII)
- Pro. Agile Leadership - Evidence Based Management
- Professional Scrum Product Owner I (PSPOI)
- Professional Scrum Facilitation Skills (PSF)

SAMPLE PROJECTS

Automatic categorization of open-ended text

ML and AI models (ChatGPT) to classify survey responses without text coding

Displayr - Semi-Automatic Text Categorization

RefManageR

Tools for finding, importing, formatting, searching, and printing bibliographic references in R.

CRAN - RefManageR

github.com/ropensci/refmanager

SELECTED PUBLICATIONS

Variational Message Passing for Elaborate Response Regression Models

- M. W. McLean and M. P. Wand
- Bayesian Analysis (2019)
- DOI: 10.1214/18-BA1098

Functional Generalised Additive Models

- M. W. McLean, G. Hooker, et al.
- Journal of Computational and Graphical Statistics (2014)
- DOI: 10.1080/10618600.2012.729985

Forecasting Emergency Medical Service Call Arrivals

- D. S. Matteson, M. W. McLean, et al.
- Annals of Applied Statistics (2011)
- DOI: 10.1214/10-AOAS442