Jasmine M. Dumas

Data Scientist • Machine Learning Engineer

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Education

DePaul University
Graduate Certificate in Analytics   2015 - 2017

University of Hartford
Bachelor of Science in Engineering in Biomedical Engineering   2008 - 2012

Experience

Simple Finance
Data Scientist 2   Oct. 2016 - Present
- Lead Data Scientist for the Onboarding product team: responsible for technical mentorship, data product strategy, external data integration with APIs, experimentation and analyzing product feature launches
- Developed an early detection machine learning model to monitor spikes in ACH returns leading to data-informed decisions for mitigating fraud loss
- Developed internal data science apps & tools for power analysis and data cleaning

The Hartford Financial Services
Associate Data Scientist   Apr. 2016 - Oct. 2016
Data Science Internship   Nov. 2015 - Mar. 2016
- Developed machine learning models for auto insurance that improved loss ratio estimates, drove strategic pricing changes and provided insights on competitive position
- Enhanced the personal lines data science architecture by developing an internal R package, wrote technical documentation and tutorials

University of Connecticut, Institute for Systems Genomics
Bioinformatics Internship   Sep. 2015 - Jan. 2016
- Computational and command line programming to develop a gene database for the annotation of the Douglas-fir & walnut genome

Google Summer of Code
Student Developer   May 2015 - Aug. 2015
- Developed a web application with r-shiny to automate differential expression and survival analysis of micro-array gene expression datasets from the NIH Gene Expression Omnibus

Open Source R Software

Packages:
- gramr: Perform grammar checks in RMarkdown documents
- ttbbeer: Data package of beer statistics from U.S. Department of the Treasury (TTB)
- shinyLP: Bootstrap components to make landing home pages for shiny web apps
- shinyGEO: Shiny app for gene expression analysis, developed during Google Summer of Code 2015 program

Featured Projects:
- Deep Learning Image Classification App with Keras and r-shiny
- Web scraping tutorial of craft brewery ratings from Beer Advocate

Invited Talks

- "R, What is it good for? Absolutely Everything" at R User Day at Data Day Texas 2018 in Austin, TX
- "Adventures in Crafting a Data Science Career" at the University of Rhode Island (URI) for the Coastal Institute and RhodyRStats Careers in R speaker series, 2017
- "Extending Shiny by Enhancing User Experience with shinyLP" in Portland, OR for the R User Group, 2017
- "Open Government Data & Beer Analytics" at Open Data Science Conference 2017 in Boston, MA

Research Publications

- Stella Bollmann, Dianne Cook, **Jasmine Dumas**, John Fox, Julie Josse, Oliver Keyes, Carolin Strobl, Heather Turner and Rudolf Debelak. 'Forwards Column'. The R Journal, Volume 9/2, December 2017.
- **Dumas J,** Gargano MA, Dancik GM. 'shinyGEO: a web-based application for analyzing Gene Expression Omnibus datasets'. Bioinformatics. 2016 Aug 8.
- **Dumas J**, et.al., 'Feasibility of an electronic stethoscope system for monitoring neonatal bowel sounds'. Connecticut Medicine, Volume 77, Number 8, pp. 467-471, September 2013.