Origin of Data Science Studio Blogs

"A peer-reviewed blogging journal about reproducible analytics, functional graphing, statistical modeling, and data visualization"

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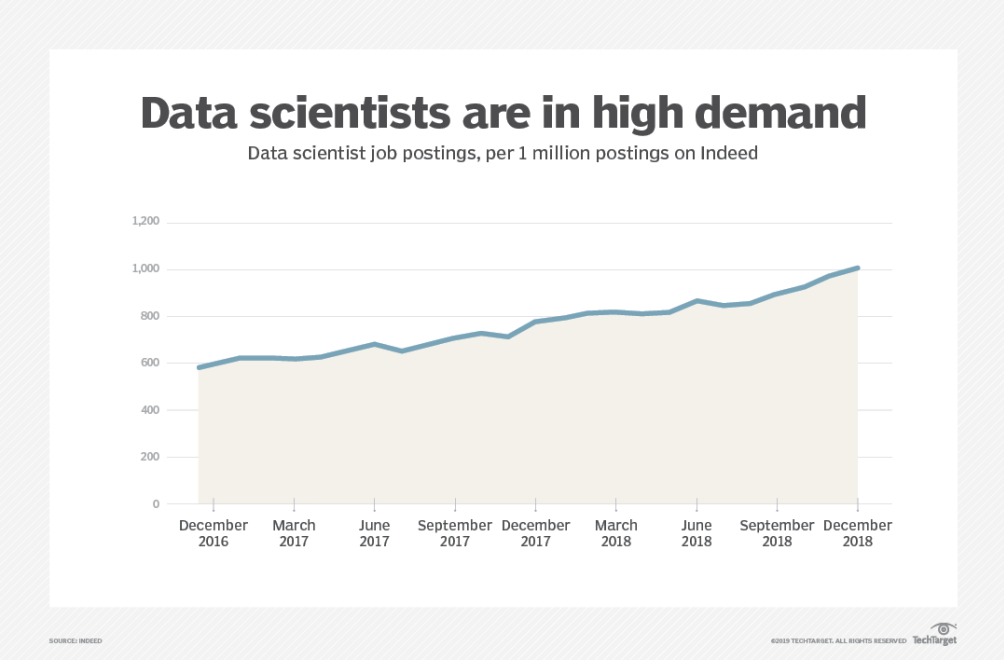
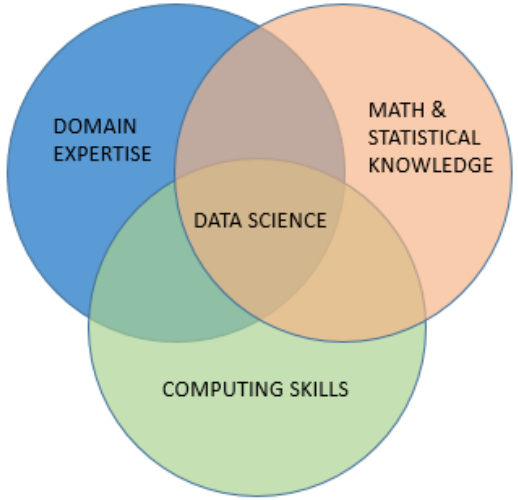
Why a blogging platform?

- The demand people who can use data effectively is increasing.
- The field is new: many aspiring professionals are supplementing their education by learning online.
- Too much unregulated information – tough to know what to trust or where to find it
  - Most of it is scattered amongst numerous personal blogs or disorganized
- This is of particular concern for health data science



https://searchbusinessanalytics.techtarget.com/feature/Demand-for-data-scientists-is-booming-and-will-increase



https://medium.com/@anandr42/the-data-science-delusion-7759f4eaac8e

DSS

Origin of the DSS blogging platform

- Promoting quality reproducible analytics is a core goal of the DSS
- Many highly skilled analysts are too busy to update a blog frequently
- A way to help those passionate about teaching to reach a wider audience
  - DSS blogging community can help get your content online
- What if there was a way to contribute infrequently on a personal blog (e.g. monthly) but have your work featured on a frequently-updated site?
- Peer-review enables a degree of quality control
- Institutional affiliation is also nice.
- Through the DSS we can create a high-quality repository of useful content for readers of all skill levels.

DSS

The DSS blogging platform

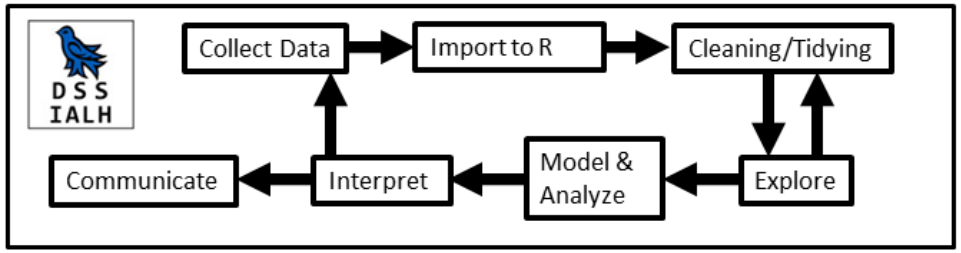
- A platform to promote reproducible analytics, functional graphing, statistical modeling, and data visualization.
  - Emphasis on health research applications
  - https://dss-ialh.rbind.io/post/welcome-to-dss-blogs/index.html

- Me: A Scientist's guide to R
  - https://craig.rbind.io/
  - Tutorials for science trainees on reproducible data analysis using R
    - Will cover examples and applications in mental health, neuroscience, psychology

- Matthew: Statistics, (health) data visualization, blogging tutorials
  - https://matthew-parker.rbind.io

- Andriy: reproducible research and (health) data visualization
  - https://andriy.rbind.io/

Example



Data analysis workflow outline

- What are the main steps of analyzing data? My typical analytical workflow follows these 7 steps:
- **0. Install and load necessary packages**
- **1. Import the data.**
- **2. Clean/Transform the data**
- **3. Explore the data**
- **4. Resolve structural issues**
- **5. Model**
- **6. Analyze and Interpret**
- **7. Communicate the results**

https://craig.rbind.io/post/a-scientist-s-guide-to-r-intro-basic-workflow/