Announcement 1: Melbourne Datathon 2017

- 13 April May 5 (3 weeks)
- 2 competitions
 - Insights
 - Kaggle
- New dataset

- Free event, free pizza, free drinks
- Cash prizes (\$5k)



http://www.datasciencemelbourne.com/datathon/

Announcement 2: Melbourne Data Science Week 2017

• 29 May - 2 June

• Tutorials

• Networking

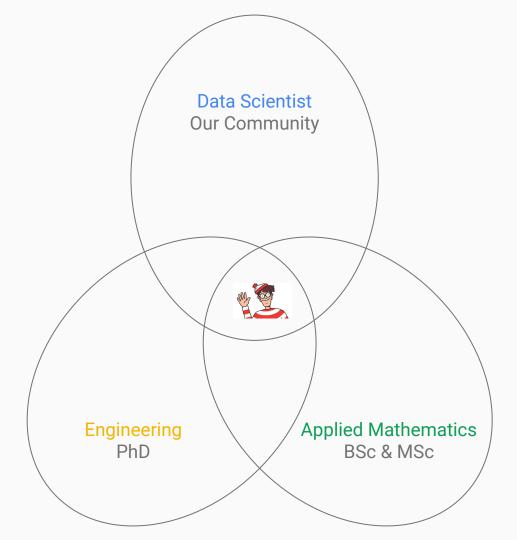






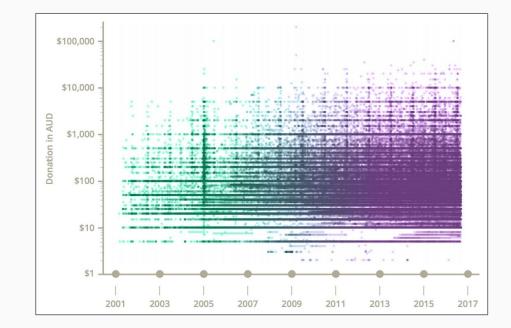
From Student to "Scientist"

Joost van der Linden



Data Scientist Our Community





https://www.givenow.com.au/stats

Data Scientist Our Community

CLASSIE

Classification of Social Sector Initiatives & Entities



What is the difference?

Communication

Communication

The Best Data Scientists Get Out and Talk to People

by Thomas C. Redman

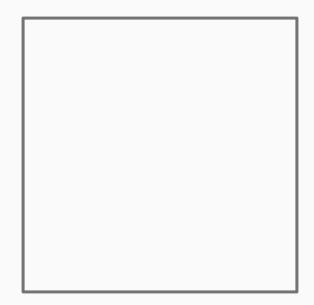
JANUARY 26, 2017



From ambiguity to clarity.

Harvard Business Review, January 2017

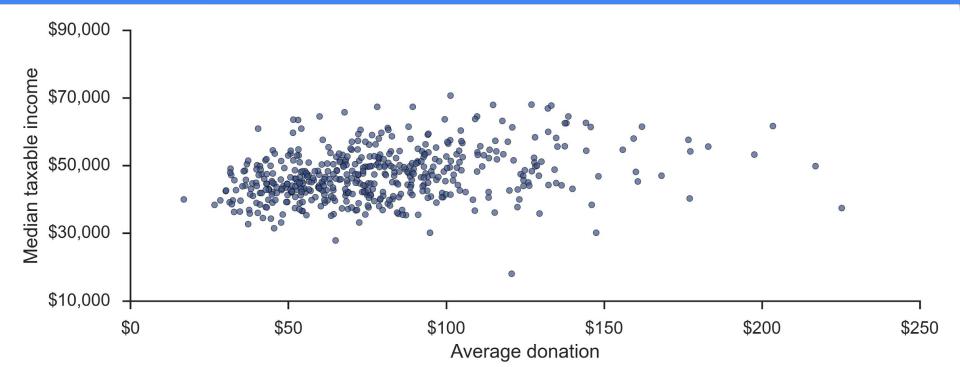


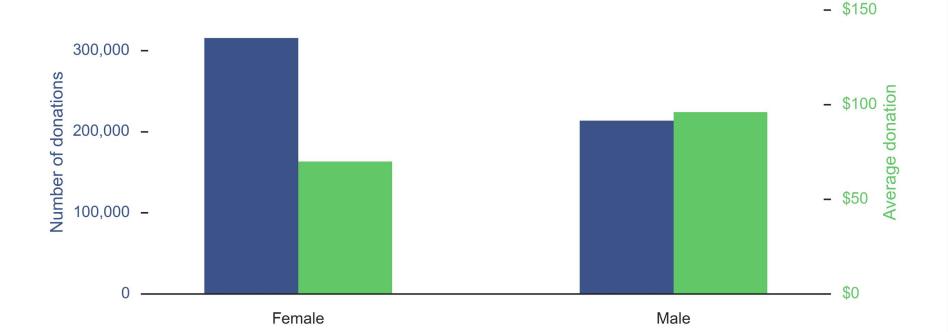


Solve for A and B and don't forget about C. Build platform D to inform E about F. Show G in terms of H and I and sort by J. Follow rule K to inform L about change in M, correlating N with O while accounting for P. Study Q, forget about R. Test S compared to the T. Change U because exploring V said W. Definitely assume X. Extract Y. Solve for A Solve for A Show G in terms of H forget about R. Forget about R. Extract Y.

As a student, your audience is smarter than you.

As a data scientist, you are the educator.





Real data



User interfaces

• Human complexity in the input data

• Human complexity in processing the data

• Human complexity in showing the data

Actionable insights

Actionable insights

"It is easy to get caught up in paralysis by analysis, where we go down these rabbit holes of interesting factoids that can never be translated into action"

- Andrew Means

Over-engineering

Over-engineering

The deep dive

- Phrase modeling
- Latent Dirichlet Topic Modeling
- Word vector models with Word2Vec
- Visualising Word2Vec with t-SNE

Great tutorial: Modern NLP in Python

Over-engineering

The deep dive

- Phrase modeling
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The shallow dive

- Word frequencies
- n-Grams
- Wordclouds
- Reading the text itself...

Great tutorial: Modern NLP in Python

Grantmaker: "I want to see where my money is going"

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Our Community: "Let's plot \$ amount by subject, as a bar chart"

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Grant applicant: "I can't divide my funds like that"

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Our Community: "Let's plot \$ amount by subject, as a bar chart"

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Ever-lasting debate between usability and data-quality.

Newsletters

- Data Elixer
- Data Science Weekly
- Data Machina
- KD Nuggets
- <u>Roundup</u>
- <u>O'Reilly</u>

Portfolio

- 1. Learn Git
- 2. Fork a template (<u>fork my website</u>)
- 3. Put your stuff up

Be smart about the projects you get involved in.

Portfolio

- 1. Learn Git
- 2. For someone else's website
- 3. Put your stuff up

Be smart about the projects you get involved in.

Getting a job

- 1. Network, Meetup, Datathon
- 2. And/or let your work speak for you

"The confusing messages about the data science career"

- u/sasquatch007 on r/datascience

For the things we have to learn before we can do them, we learn by doing them.

- Aristotle