

BUAD621: Decision Analytics & Visualization

Day 1: The Journey Begins



Your Guide

"Adam"



Adam Fleischhacker

@preposterior



Your Guide

"Adam"



Adam Fleischhacker

@preposterior



The Supply Chain Company™



Agilent Technologies

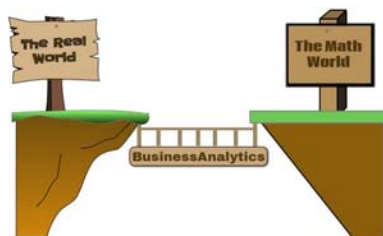


JPMorganChase



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The Business Analyst's Guide to Business Analytics



Intro to Business Analytics In The R-Ecosystem

Featuring R, RStudio, the Tidyverse,
Graphical Models, Bayesian Inference, and Greta.

The Business Analyst's Guide to Business Analytics

Available at:

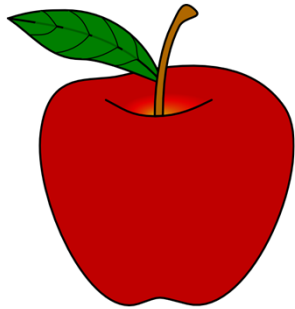
<http://causact.updog.co>



Adam Fleischhacker

Who are you? (tell me one)

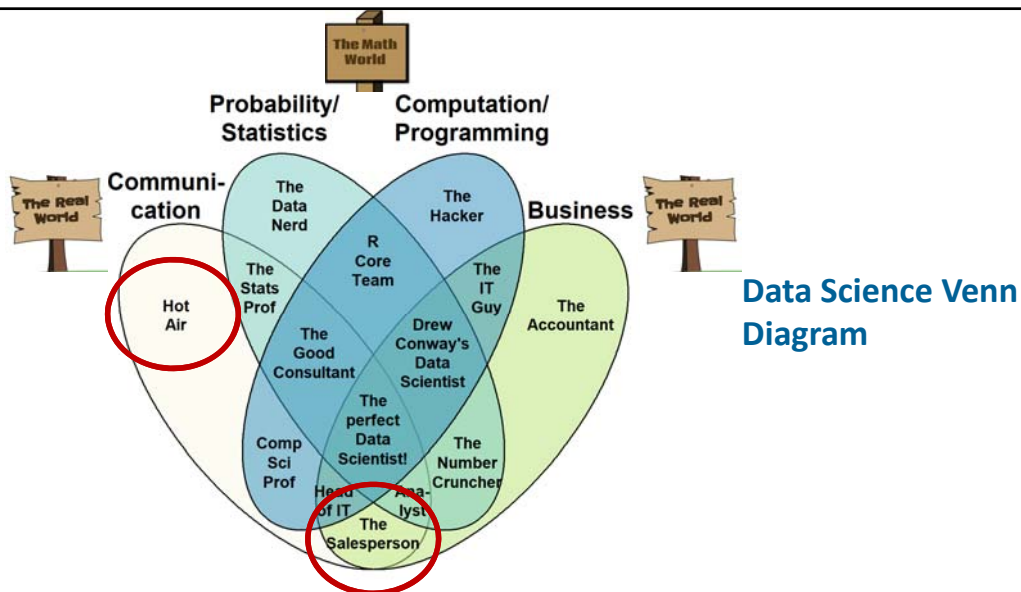
Interesting Tidbit



Favorite Company

Wawa

COSTCO
WHOLESALE



Source: Stephan Kolassa (<https://bit.ly/2BjqdBt>)

19J-BUAD621-172 > Modules

2019 Summer

Home

Modules

Discussions

Grades

Announcements

Attendance

Assignments

Collaborations

Conferences

▼ Module 0 - Getting Started

- Unfinished Draft of Syllabus.pdf
- Module0 - Course Prep - Relevant Book Chapters.pdf


► WEEK1 HW - Computing & Data Manipulation Due @11pm

Course Website

<http://www.udel.edu/canvas>

Other Notes:

- Classes are recorded.
- Office hours – Tues. after class
- Slides posted evening prior to class


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Computing*



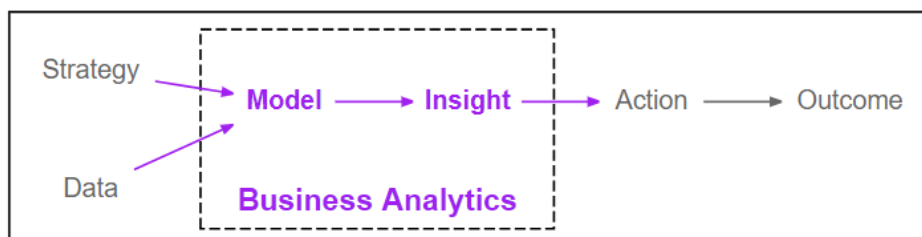
* Laptops Are Required

Source: <https://www.northeastern.edu/levelblog/2017/05/31/big-companies-using-r-data-analysis/>

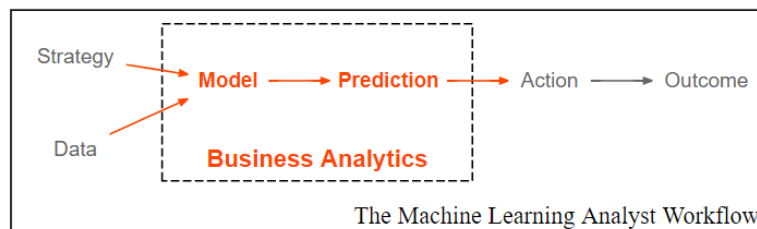

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**Release The
BAW**



**Release The
BAW**



The Machine Learning Analyst Workflow

Grading

Weekly HW Quizzes

80%

Final "Client" Report or
Presentation

10%

Participation

10%



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Grading

HW Quizzes

80%

- Due Each Wednesday @ 11pm
- Four Attempts at Quantitative Questions
 - *Note: questions will have subtle change with each attempt*
- Lab Hour (Tuesday's 7pm-8pm)
 - *Start HW early. All HW material will be covered by EOD of prev. Thursday*
- Four missed points are forgiven
 - *(no other excuses please)*



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Grading

- 1 - 3 Team Members
- Due during or slightly after final week of class

Final "Client" Deliverable

10%

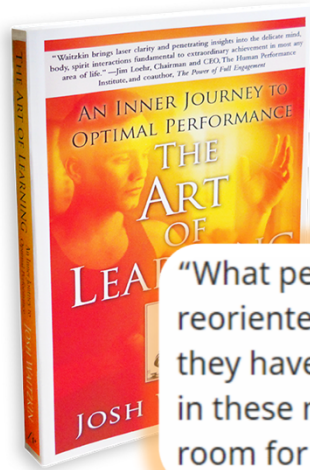
Grading

- Attendance
- Zero Cellphone Glances
- Focused Laptops
- Engaged Minds

Participation

10%

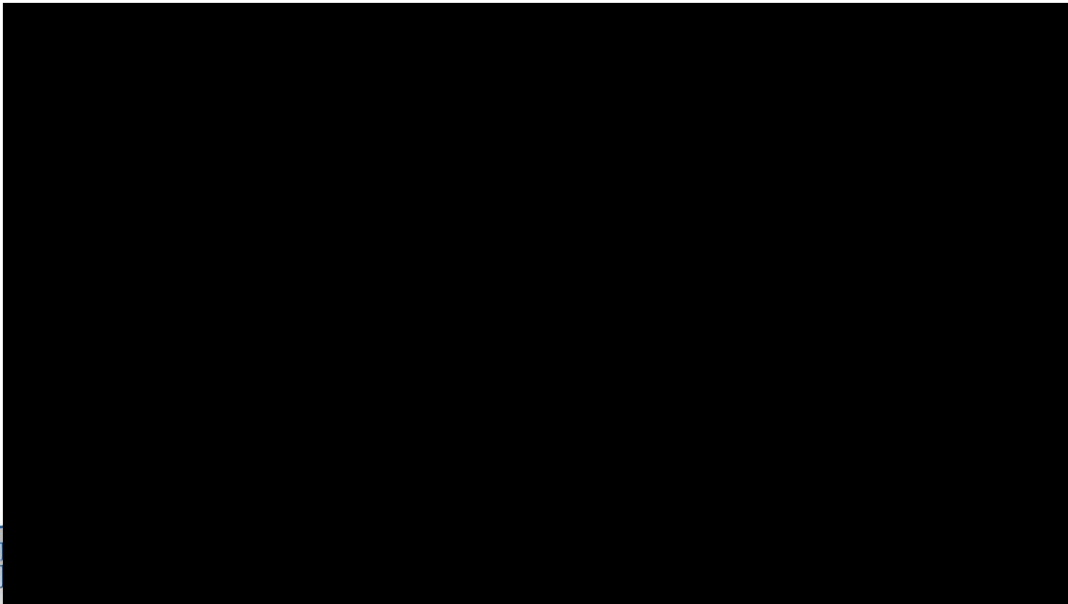
Productive Struggle



Productive struggle is a state of mind where obvious solutions and simple answers to a problem seem elusive, yet despite this, one maintains faith that flexible thinking and perseverance will yield positive outcomes.

"What people don't realize is that world-class performers have reoriented their relationship to suffering, to the point of resistance, they have learned to embrace it, they've learned to see the beauty in these moments where there's pain because there's incredible room for growth." - Josh Waitzkin ([Tim Ferris Show Ep.2](#))

Productive Struggle



Data Science as Execution of Strategy

Key Idea

Strategy sets a destination are you helping?

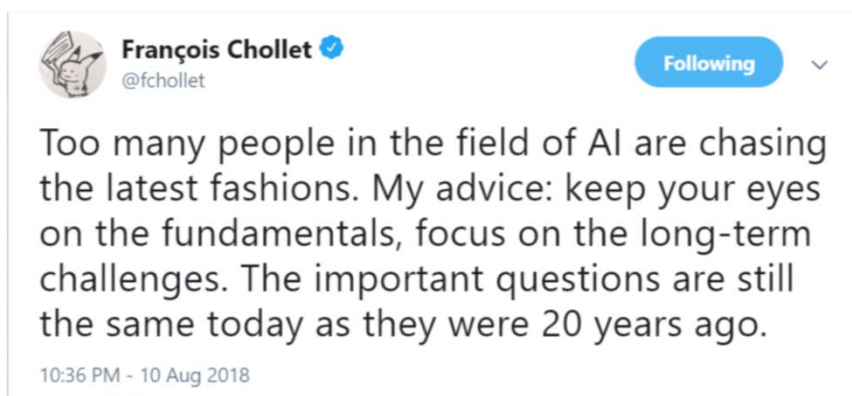


- Kenichi Ohmae, Partner @ McKinsey, HBR 1989

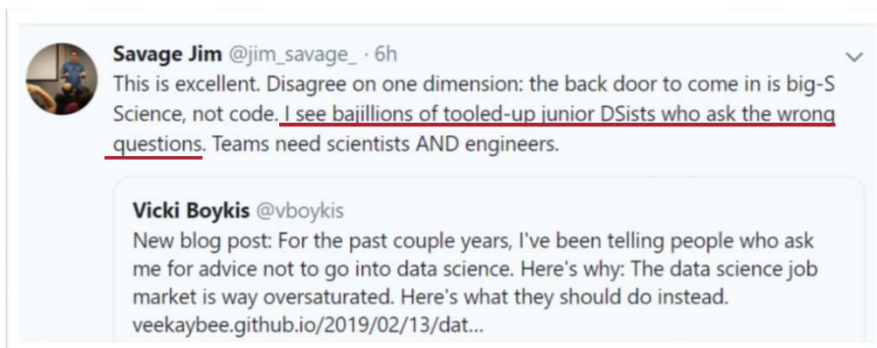
Francois Chollet



Stop Chasing Buzzwords



Ask the right questions



Focus on Strategy First



Schedule

Schedule (subject to change)

Date	Module #	Class Topic
06/11/19	1	Motivating the class, Introduction to the R-Ecosystem, Manipulating Data Intro
06/13/19	1	Manipulating Data + Data Viz Intro
06/18/19	2	Data Visualization
06/23/19	2	Representing Uncertainty
06/25/19	3	Decisions Under Uncertainty
06/27/19	3	Joint Distributions
07/02/19	4	Bayesian Updating
07/04/19	4	Probabilistic Graphical Models
07/09/19	5	Multi-Level Modelling
07/11/19	5	Inspiring Action

← Module 1 HW Due Wed. 6/19 11pm

← Module 2 HW Due Wed. 6/26 11pm

← Module 3 HW Due Wed. 7/03 11pm

← Module 4 HW Due Wed. 7/10 11pm

← "Client" Deliverable Due ??