Data Science
Course Overview

Agenda

I. Meet Your Instructors

II. Instructor Philosophy

III. Content Philosophy

IV. How To Succeed

V. Typical Class

VI. Logistics

VII. Questions?

Meet Your Instructors

Anthony Ta - Instructor

Jocelyn Ong - TA

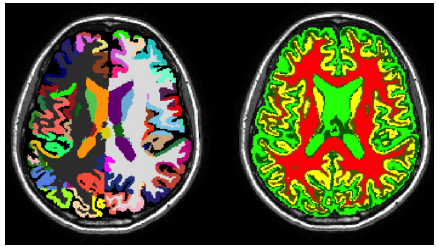
About me

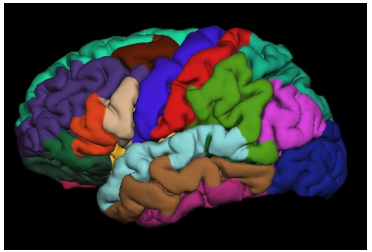
NUS National University of Singapore

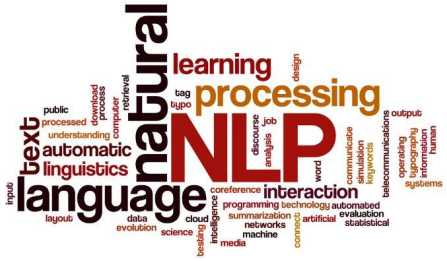
NUHS National University Health System

TECHINASIA

GO JEK







amazon web services

Google Cloud Platform

Jocelyn Ong - TA

- Ernst & Young - Tax Senior Consultant
  - Excel
  - In-house software
- General Assembly NYC - Data Science Part Time
- General Assembly NYC - Data Science Immersive
  - https://jocelyn-ong.github.io/
- LinkedIn - Marketing Data Analyst
  - SQL
  - Hadoop

Other non data science-y stuff

- Gym
- Scuba diving
- Rock climbing
- Reading
- Learning to play the guitar

Instructor Philosophy

Embrace diversity

Seek an optimal pace

Communicate early and often

Success is not a grade

Content Philosophy

- Application-based approach
- Understand key principles
- Balance depth with breadth
- Course project

How To Succeed

Effort not prior knowledge

Ask questions

Read documentation, make documentation

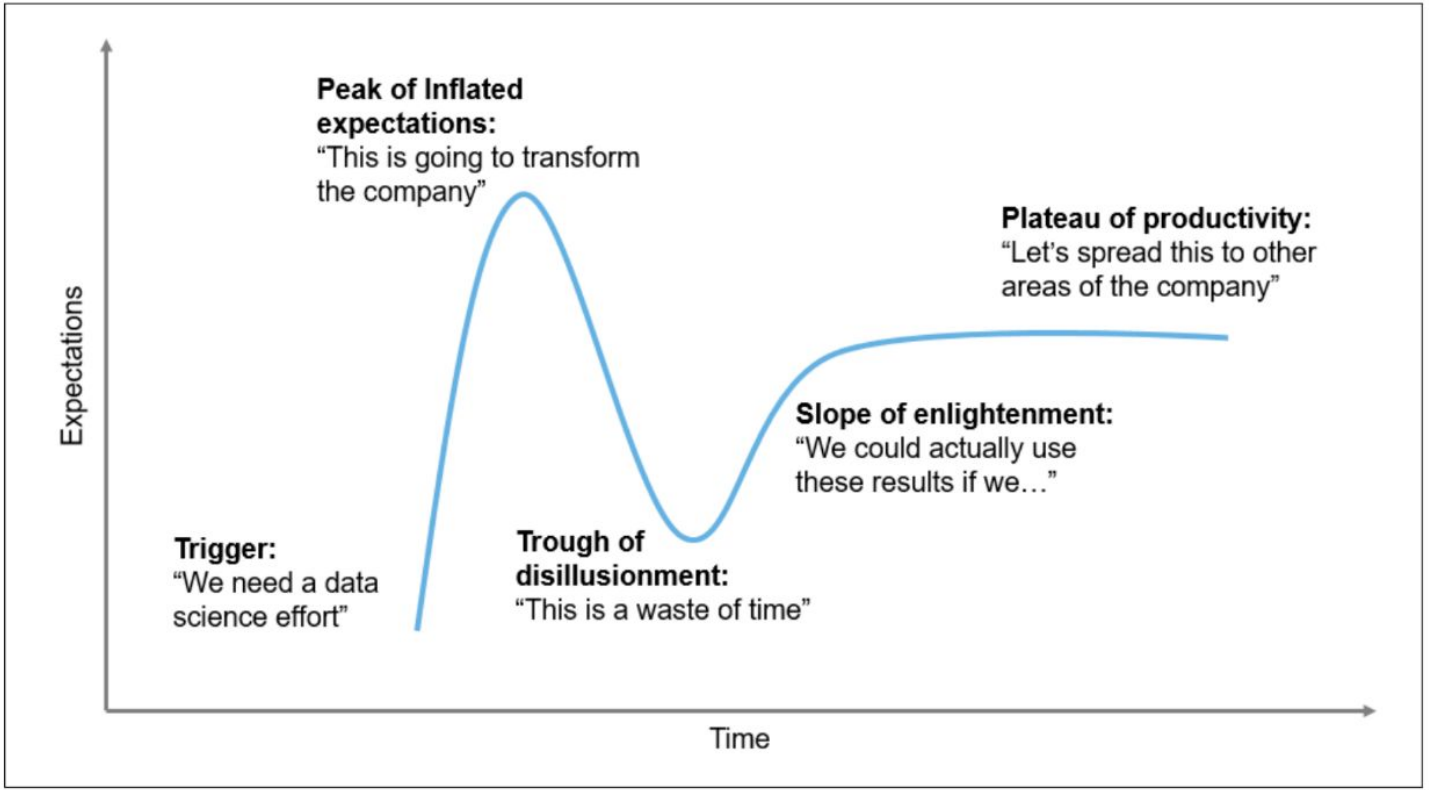
Communicate what you've learned

Help your classmates

Be patient with yourself

Get your hands dirty

How To Succeed



Going Pro in Data Science - Jerry Overton

Typical Class

Lecture

Code walk-throughs

Code exercises

Discussion (homework, readings, ...)

UNITS

UNIT 1: RESEARCH DESIGN AND EXPLORATORY DATA ANALYSIS	What is Data Science	Lesson 1
	Research Design and Pandas	Lesson 2
	Statistics Fundamentals I	Lesson 3
	Statistics Fundamentals II	Lesson 4
	Flexible Class Session	Lesson 5
UNIT 2: FOUNDATIONS OF DATA MODELING	Introduction to Regression	Lesson 6
	Evaluating Model Fit	Lesson 7
	Introduction to Classification	Lesson 8
	Introduction to Logistic Regression	Lesson 9
	Communicating Logistic Regression Results	Lesson 10
	Flexible Class Session	Lesson 11
UNIT 3: DATA SCIENCE IN THE REAL WORLD	Decision Trees and Random Forests	Lesson 12
	Natural Language Processing	Lesson 13
	Dimensionality Reduction	Lesson 14
	Time Series Data I	Lesson 15
	Time Series Data II	Lesson 16
	Database Technologies	Lesson 17
	Where to Go Next	Lesson 18
	Flexible Class Session	Lesson 19
	Final Project Presentations	Lesson 20

We will be flexible!

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Logistics

Start and end on time

Missing class

Slack instead of email

Office hours

GitHub (+Google Drive) for course content and homework

Questions?