Berkeley Engineering | BerkeleyHaas

PROFESSIONAL CERTIFICATE IN MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE

Office Hour #4 with Matilde D'Amelio

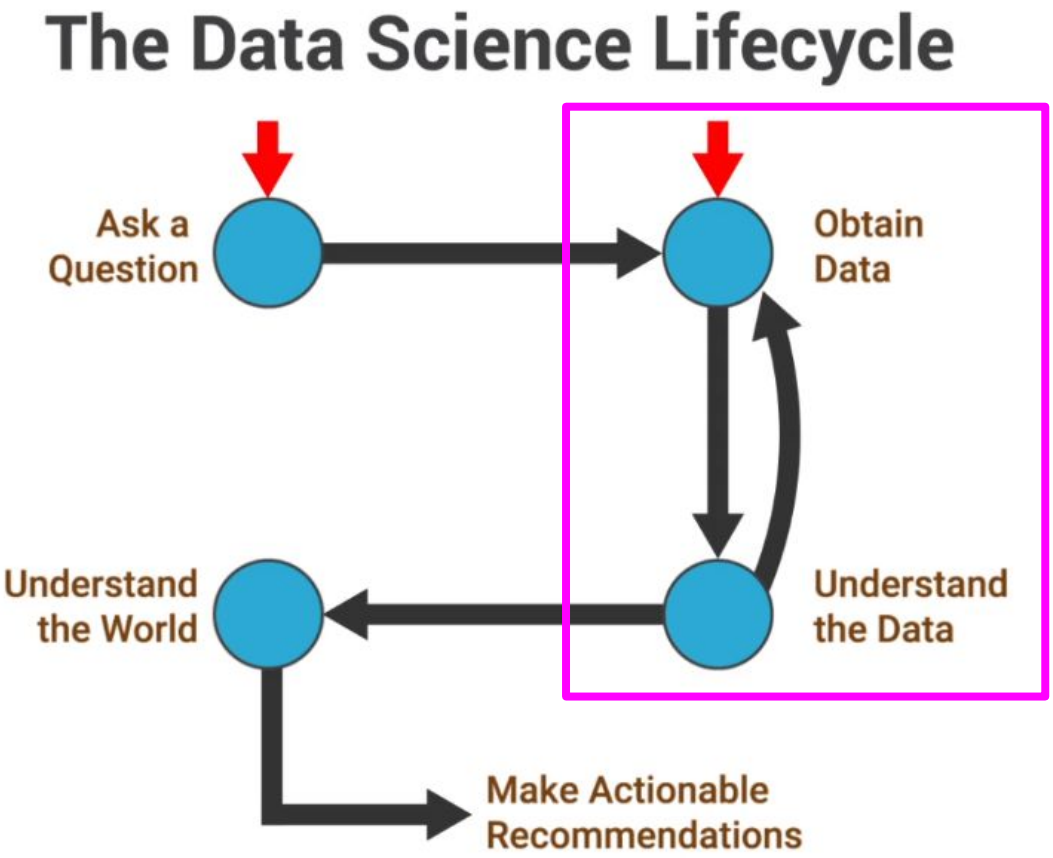
March 31, 2022 at 10 pm UTC

MODULE 3

DEEP LEARNING for CREATING MUSIC

Souce: https://www.youtube.com/watch?v=wYb3Wimn01s&t=143s (minutes 0:40 - 3.35)

Data Science Lifecycle



OBTAIN AND COLLECT DATA

1. Find the Right Data (from different datasets)
2. Explore Datasets (i.e., plotting)
3. Merge/Join Datasets
4. Data Cleansing
5. Explore the Final Dataset (i.e., plotting)

COLLECT the RIGHT DATA

Collect the right data to avoid BIAS

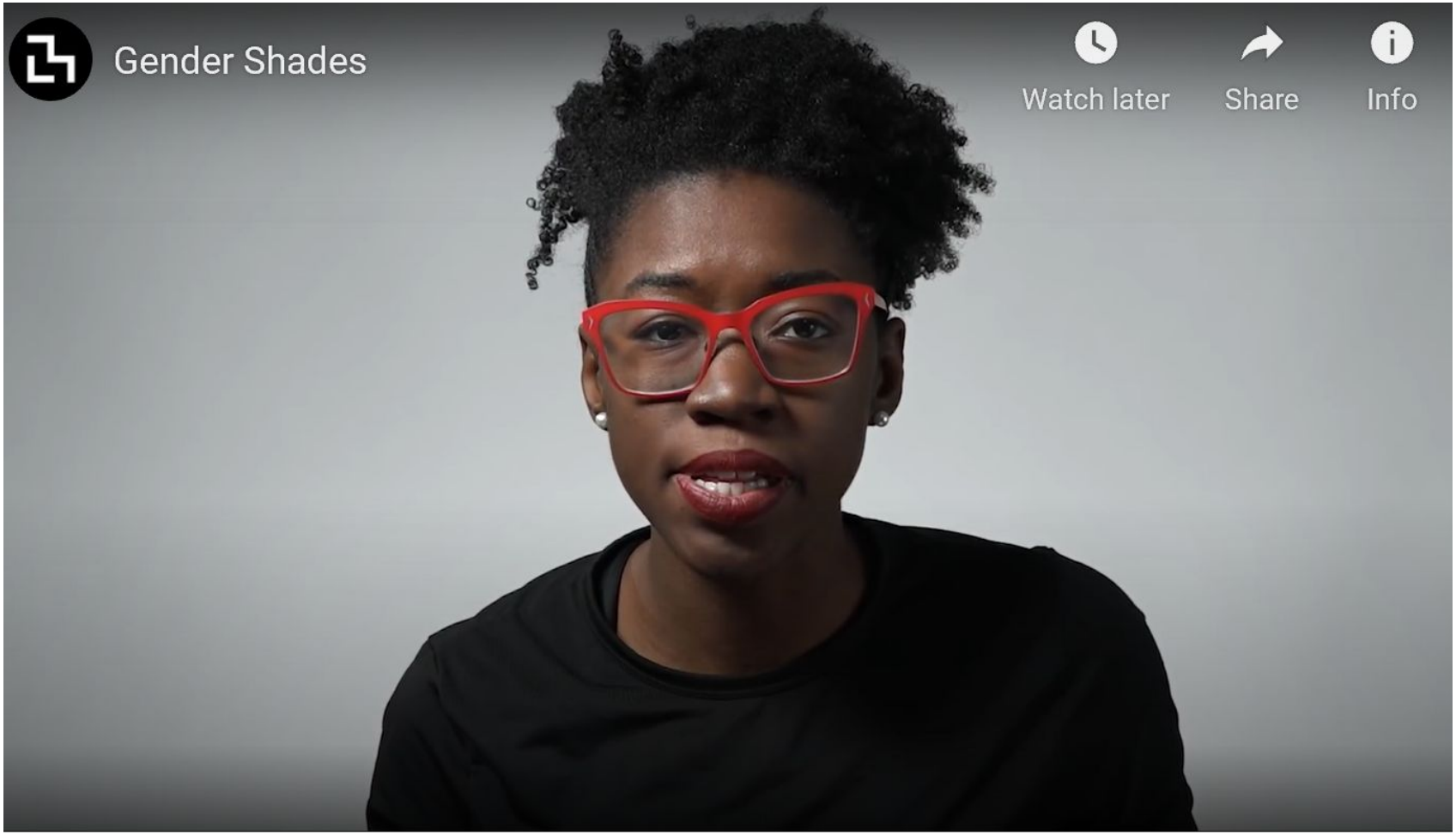
(review the business questions if necessary)

RETAIL OCTOBER 11, 2018 / 12:04 AM / UPDATED 3 YEARS AGO

Amazon scraps secret AI recruiting tool that showed bias against women

A costly inequality: Women pay nearly £17,000 more to borrow over a lifetime.

COLLECT the RIGHT DATA



https://youtu.be/TWWsW1w-BVo

READINGS ABOUT BIAS PROBLEMS

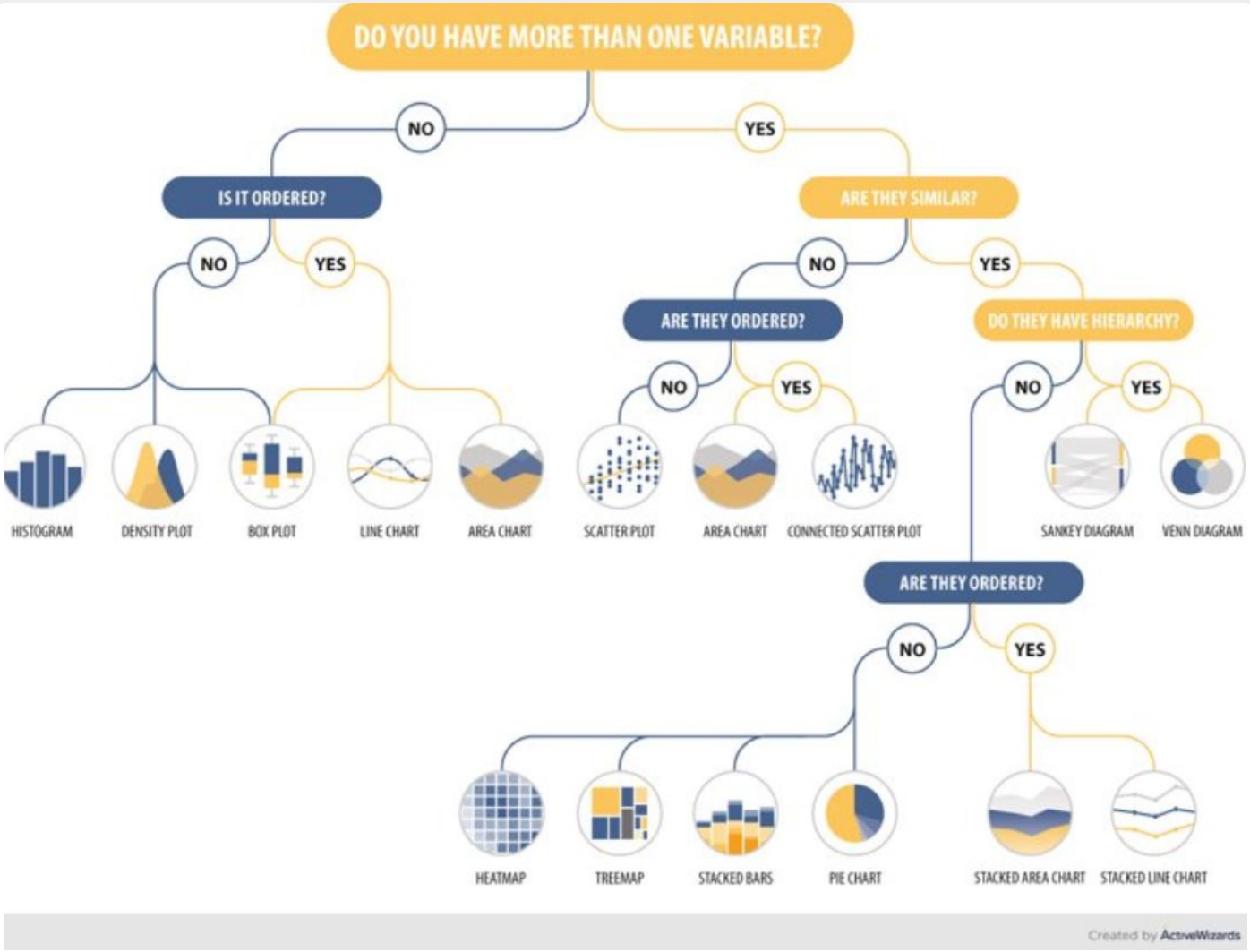
1. https://www.creditkarma.co.uk/insights/i/gender-credit-gap/
2. https://www.reuters.com/article/us-amazon-com-jobs-automation-insight/amazon-scraps-secret-ai-recruiting-tool-that-showed-bias-against-women-idUSKCN1MK08G
3. https://sitn.hms.harvard.edu/flash/2020/racial-discrimination-in-face-recognition-technology/
4. https://news.mit.edu/2018/study-finds-gender-skin-type-bias-artificial-intelligence-systems-0212

DISCUSSION

Could you identify any bias you have faced when dealing with ML/AI?

What are the consequences of this bias?

DATA VISUALISATION FUNDAMENTALS



https://www.kdnuggets.com/2019/03/how-choose-right-chart-type.html

CASE STUDY: DHL

https://www.aircargonews.net/technology/dhl-tech-makes-for-a-speedier-safer-warehouse/

QUESTIONS?