

Gender Discrimination in Data Analysis: a Socio-Technical Approach

Supervisor: Co-supervisor:

Prof. Viola Schiaffonati Prof. Letizia Tanca

Prof. Pierre Senellart
Prof. Karine Gentelet

M.Sc. Thesis by: Riccardo Corona

927975 07/10/2021

- 1 Section 1
 - Subsection 1.1
 - Subsection 1.2
- 2 Section 2

Data analysis

Set of processes for inspecting, cleaning, transforming, and modeling data with the aim of discovering useful information, informing conclusions, and supporting decision making.

Gender discrimination

Specific (sub)category of social problems, here expressed in the form of the so-called '**gender gap**', definable as:

A difference between the way men and women are treated in society, or between what men and women do and achieve.

Problem

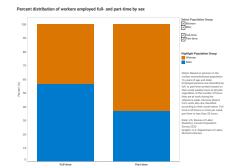
Data and datasets, on which a lot of actions of our daily routine are based, can be **unfair**. Unfair, or better to say, **biased** data, may influence, directly or indirectly, our perception of reality, and lead us to make decisions that, although seemingly fair and just, contain in turn bias, and discriminate against individuals or groups of individuals.

Example scenarios

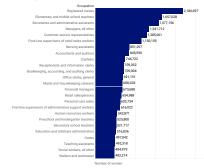
- COMPAS tool used in the U.S. to predict recidivism risk biased against Black people (2016).
- Amazon software to screen candidates for employment biased against women (2015).



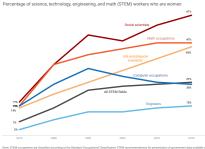








Note: Full-time, year-cound civilian employed 16 years and older. Occupations with at least 100 sample observations. Data: U.S. Census Bureau, American Community Survey 2019



https://www.bis.gov/inoc/Haschment_C_STEM_2018_pd to the demands Configuration Constrained at the recommendation or presentation to general temporary of the contract of the c

Section 1

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Subsection 1.1

This frame has an empty title.

- item 1
 - ▶ item 1.1
 - ▶ item 1.2
- item 2
- item 3

Section 1 - Subsection 1.2 Slide 1.2 without numbering

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

Block

Text.

Block

Text.

Alert block

Alert text.

Block

Text.

Alert block

Alert text.

Example block

Example text.