## Amazon's Recruitment Al

### Background

- Role of AI in recruitment.
- How Amazon's Al worked.
- Identify where and how the bias manifested -for instance training data, algorithm design etc

## **Ethical Analysis**

- Al ethics fairness and bias
  - -Transparency: why transparency is crucial in AI hiring systems?
  - Accountability: Who is accountable if the Al makes biased decisions?

And the importance of clear lines of responsibility for ensuring ethical use.

- Human Oversight: need for the necessity of human review in AI decisions to reduce bias and ensure alignment with company values and Legal requirements.
- How bias occurred in Amazon's system
- Consequences of such bias in the context of recruitment
  - Exclusion of Qualified Candidates : Deserving women might be unfairly screened out.
  - **Perpetuating Discrimination:** How bias in AI can reinforce existing societal inequalities.
  - **Loss of Diversity:** Examine how biased hiring decreases diversity, potentially impacting creativity and innovation.

# Data science perspective

- Basics of AI algorithm used in recruitment
- How bias can be introduced in the data or algorithm

### **Proposing Improvements**

- Strategies for debiasing data Suggest methods to remove bias from data sets.
- Algorithmic adjustments for fairness (can build sample recruitment system addressing bias reducing techniques ... can use python libraries)
- Ongoing monitoring and evaluation methods for bias.

#### Research articles

https://www.nature.com/articles/s41599-023-02079-x

https://www.theguardian.com/technology/2018/oct/10/amazon-hiring-ai-gender-bias-recruiting-engine

https://www.academia.edu/42965903/An overview of ethical issues in using Al systems in hiring with a case study of Amazons Al based hiring tool

https://www.researchgate.net/publication/373896468\_Gender\_Bias\_in\_Hiring An Analysis of the Impact of Amazon%27s Recruiting Algorithm

https://link.springer.com/article/10.1007/s43681-022-00166-4