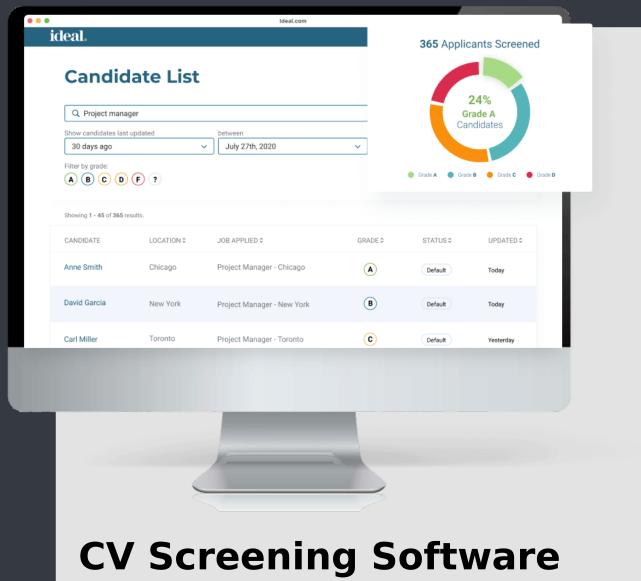
How Can Socio-Technical Design Approaches Ensure Autonomy in Hiring Practices?

1. Background

- AI (Artificial Intelligence) tools are being used to select the "best" job applicant.
- **CV Screening software**: Al tool used to review and rank CVs according to certain criteria.
- These Al tools raise socio-ethical issues that hurt the applicant's autonomy over self representation.

2. Methodology

- Literature study spanning multiple domains such as artificial intelligence, philosophy, design, etc.
- Goal: find suitable socio-technical design approaches to address human autonomy in hiring practices.

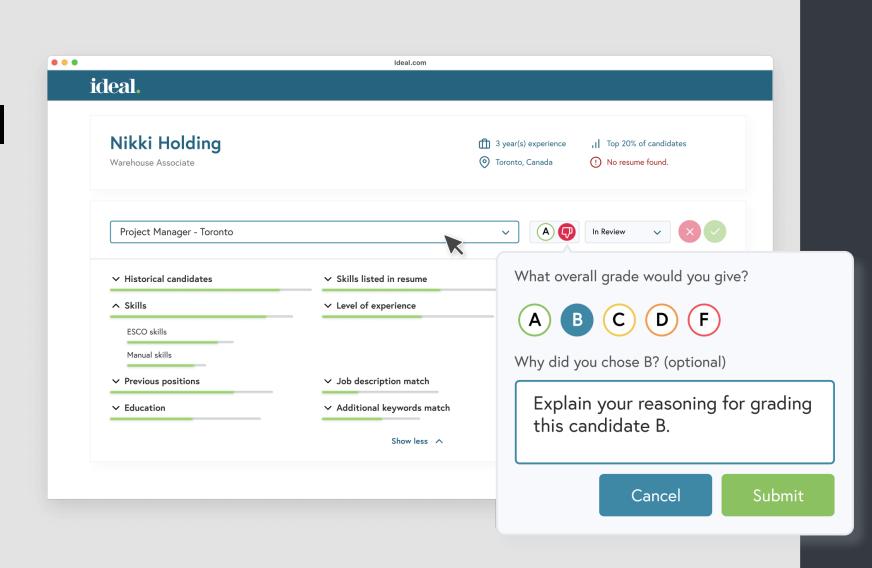


3. Problem - Data Determinism

- Data determinism: The applicant is judged based on who the algorithm says they are, rather than who the applicant is.
 - Algorithm may have an inaccurate conception of the applicant
- Result: applicant loses their autonomy over self representation.

4. Cause of Data Determinism

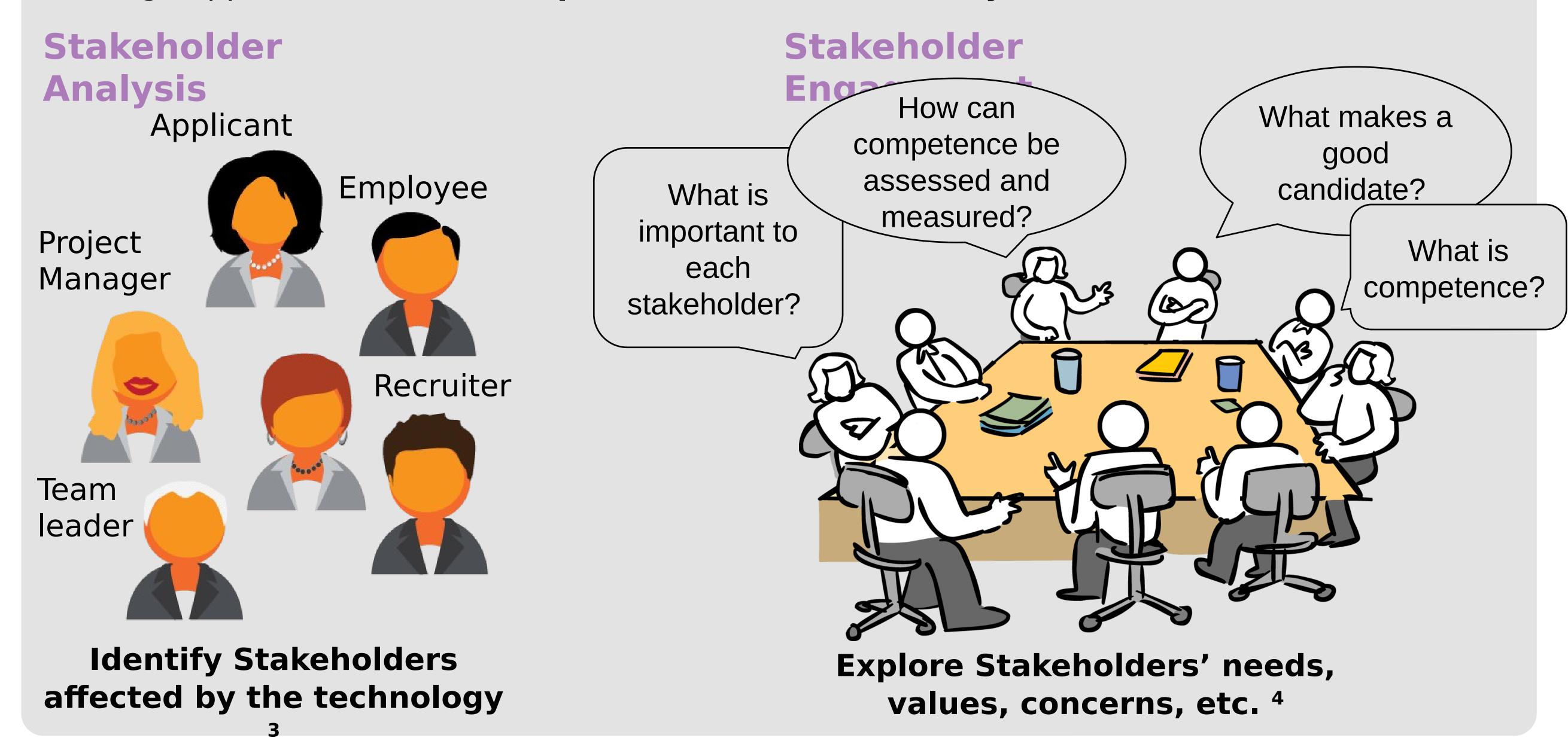
- I. CV screener assigns numerical values to target variables.
 - But these target variables are highly fluid, contextual and contestable
 - Broad and complex variables lose meaning when forced into narrow numerical categories
- II. CV screener combines a large amount of data and learns from patterns in the data.
 - A person's score is dependent on the data used & the correlation between the person's data and previous data.



CV Screening Software

5. Proposed Solution

- Expand design approach: techno-centrie socio-technical
 - > Consider human, social, organizational and technical factors
- Designers should get a nuanced understanding of the social context, its politics, and stakeholders, before developing a solution
- Involve key stakeholders in design process (Participatory Design) and centralize their values (Value Sensitive Design)
- Design approach: Iterative, experimental & evolutionary



6. Conclusion

- This context-dependent, stakeholder-centric approach results in an inclusive and socially aware process
 - Necessary to understand the complex social context and the stakeholders' implicated values

[1] https://ideal.com/product/screening/

- Social scientists, design specialists & computer scientists should collaborate.
 - > Not one sole expert has all the answers

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[3] https://www.kissclipart.com/stakeholder-png-clipart-stakeholder-theory-scrum-1e4vsu/

[4] https://www.kissclipart.com/stakeholder-meeting-clip-art-clipart-stakeholder-e-n4pxce/