

Automated Resume Parsing Resume vs. Online Profile



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Introduction/Goals

To understand the problems with existing resume parsers in job application process.

Getting participants' opinion on online profiles.

Explore the feasibility of replacing resumes with online profiles.

Research Questions

- What are candidates' perspectives on Automated
 Resume Parsers with regards to procedural justice?
- How do candidates perceive automated resume parsers?
- What features should an ideal automated resume parser for candidates demonstrate?

Resume Parsing Survey

Survey questions focus on four pillars of procedural justice:

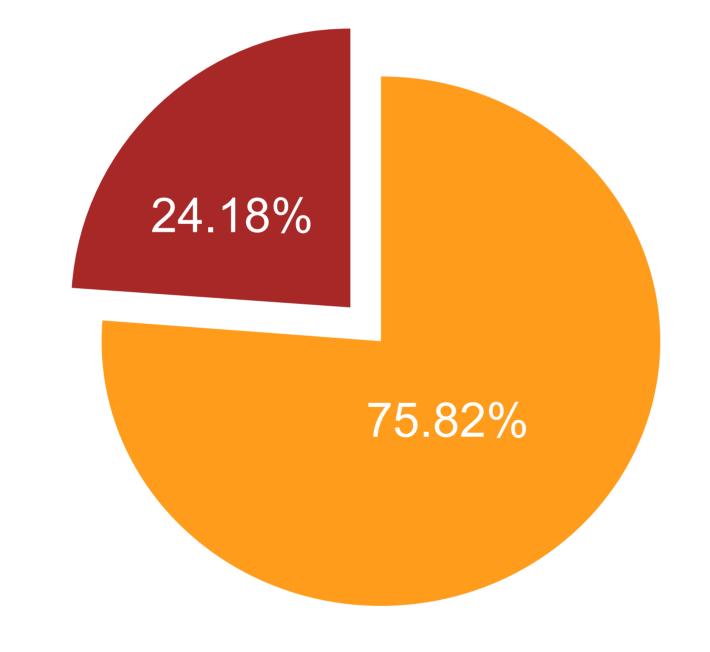
- Equality
- Fairness
- Trust
- Transparency



Link to the paper for more info

Lessons Learned Based on Resume Parsing Survey Results

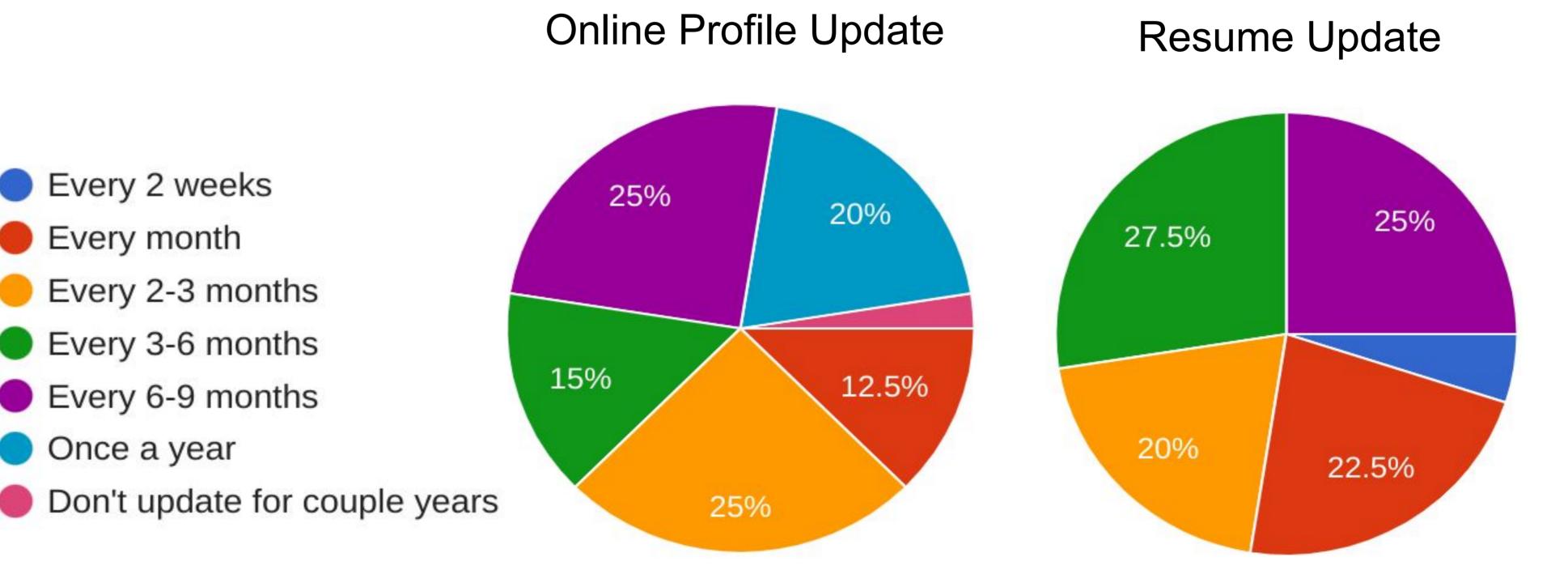
- Participants feel distrust toward Al-based automated resume parsers, and prefer human reviewers for resumes while providing a variety of idea for features to improve the fairness of these systems.
- Automated Resume Parser
- Human HR Representative



- The team propose guidelines for future Automated Resume Parser designs to promote equity, diversity and inclusion in the tech workforce.
- These guidelines are:
 - Avoid programming errors
 - Incorporate transparency
 - Incorporate explainability
 - Make resistant to data perturbations
 - Human-centered design

Resume vs. Online Profile Survey Results

- Participants seem to be updating their resume more often than their online profiles on websites like Linkedin, Handshake, etc.
- Participants think that using online profiles to apply for jobs is more convenient and accurate.
- There would not be a parsing problem with resumes.
- Participants think that having and uploading a resume is required by most companies. Hence resumes can not be replaced with online profiles.



Future Work

- Get the companies' opinion about online profiles and analyze why they still stick to resumes.
- How can we make the process of job application more efficient without worrying about resume parsing issues and bias/procedural justice/etc.