# Working with messy data

## Insights

### The companies with most open positions

Amazon.com: 358 Ball Aerospace: 187 Microsoft: 137

Google: 134 NYU Langone Health: 77

Fred Hutchinson Cancer Research Center: 70

#### Frequently mentioned job positions

Data scientist: 1261 Research analyst: 318 Research scientist: 274

Data engineer: 186
Data analyst: 131

Machine learning engineer: 122

We decided to focus on the kind of skills are most mentioned in data positions. We looked for:

- Degrees
- Years of Experience
- Hard skills
- Soft skills

## How hard / easy was the data to work with?

We found some limitations:

- Unclear sampling method, only one job portal utilised.... is the data representative?
- Some samples include zip codes, others not → more zip code data could allow for more specific geographic targeting down to zip code level. Also, some locations were only mentioned in the position
- The most challenging one unstructured data in job description:

Possible to search for mentions of certain keywords such as skills but hard to determine, for instance, skill level (ex: "advanced python skills" vs. "intermediate python" vs. "some python experience")

May result in some inaccuracies, for example: while searching for programming language "r" or "5 years" experience, may have counted "r & d" and "the company is 5 years old."

Difficult to account for "advanced" degree



