

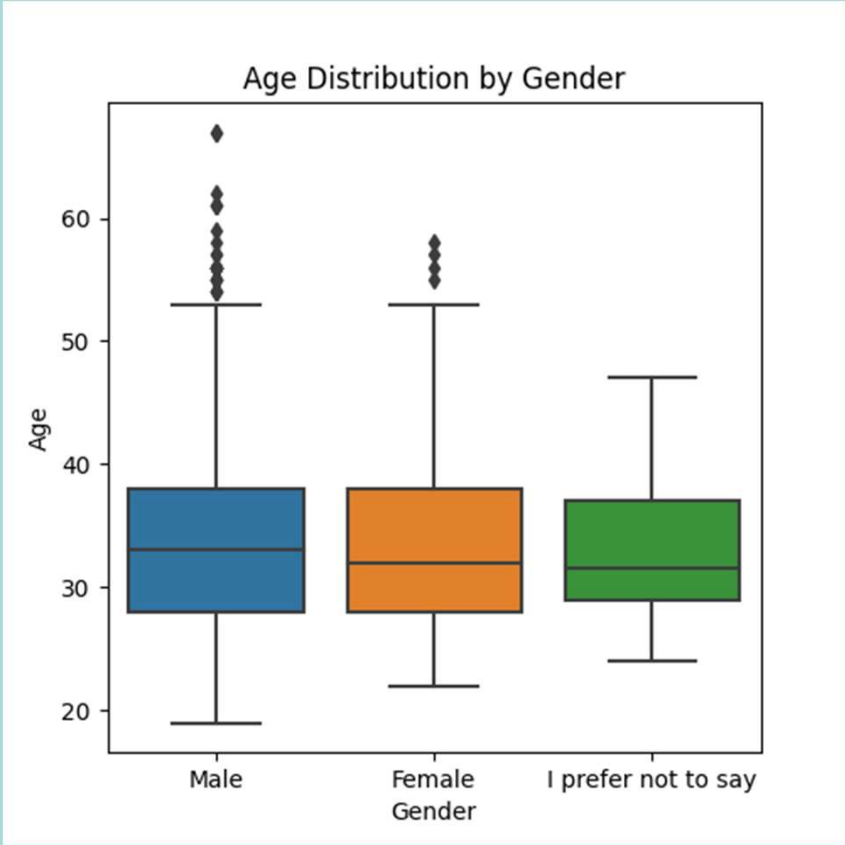
Job Influence on Remote Work and Skill Set

Results Presentation

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Age Breakdown

‘Male’ category has the most information available, but all genders have the same average age.



According to the survey, 89% of the interviewed identify themselves as ‘Male’. This makes it the category with the youngest and oldest interviewee, but also the category with the most number of outliers (represented by the isolated points).

We can also observe that, despite the difference in total of answers, the ‘Female’ category also has some outliers, although in lower number than those registered in ‘Male’ category.

Additionally, the boxplot allows us to observe the distribution of the data, and from there assess mean values, dispersion of the dataset, and signs of skewness.

And visually, we can observe that:

- All except the ‘Male’ category appear to have a positive skew (also known as right skewed);
- The median, represented by the line inside the box, seem to be different in all categories.

In order to prove if the median are indeed different between categories, is necessary to make an ANOVA test. From that, we obtain a P-Value > 0,05, which means that we cannot reject the null hypothesis, which in turns mean that the median are equal among categories statistically speaking.

Remote Work Comparison

Despite the overall positive opinion of remote work across job roles, some industries are more favourable than others.

When performing an analysis of Remote Work and how it ranks among workers, two perspectives are necessary to better understand the underlying complexity of the subject: Remote work opinion by Job role and by Industry.

In terms of Remote Work opinion by Job Role (graph A), we can observe that:

- The job positions of Mobile Apps Developer And SysAdmin Engineer (positions 5 and 18 respectively) register the highest mean value;
- The position of Product Owner and CTO (positions 3 and 14, respectively) have the lowest mean value;

In terms of Remote Work Opinion by Industry (graph B), we can observe that:

- The Travel industry (position 21) registers the highest mean value;
- The Research – Academic or Scientific Industry (position 22) registers the lowest mean value;
- The industries of Real Estate and Nonprofit (positions 23 and 24) have a wide difference between the highest and lowest registered in the industry (represented by the error line in each bar);

This allows to conclude that, despite the good ratings of Remote Work opinion by job, there's a wider range of answers when analysed the ratings of Remote Work by Industry. This disparity may due to the fact that some industries are more reliable on face-to-face interaction or they need specialized equipment not available at home.

Additionally, the industries with the highest disparity of answers are also the ones that have registered the lowest number of answers, so caution is needed when analysing this categories.

Skills and Jobs

While the language distribution by job can be fairly concentrated, the opposite is true in terms of Frameworks.

In the technological field, there's a wide range of languages and frameworks to better resolve the various needs. And, each job requires a subset of those languages and frameworks.

In this report, when crossing the information available of job roles and the different languages and roles we can observe that:

- The languages answered for each job role is fairly concentrated, showing the level of specialization needed in this area (exemplified in the table A below);
- The frameworks register value close between them, showing the importance of knowledge within the theme (exemplified in the table B below)

This allow to conclude that, especially for people who wants to follow a specific path, must be knowledgeable, at least, of these requirements.

Job Role	1st	2nd	3rd
Full-Stack Developer	JavaScript	Java	HTML/CSS
Backend Developers	SQL	Java	JavaScript
Technical Team Leaders	SQL	JavaScript	HTML/CSS

Table A: Top three Languages for the Top three jobs

Job Role	1st	2nd	3rd
Full-Stack Developer	jQuery	React	.NET
Backend Developers	.NET	Spring	jQuery
Technical Team Leaders	.NET	React	jQuery

Table B: Top three Frameworks for the Top three jobs