

Assignment Overview

Estimated Reading Time: 5 minutes

<https://us3.ca.analytics.ibm.com/bi/?perspective=home>

In this assignment, you will build a dashboard using data from the Stack Overflow survey. You can create your dashboard using either IBM Cognos Analytics or Google Looker Studio. Your dashboard will be divided into the following sections:

Current technology usage tab

- **Top 10 languages:** Display the top 10 programming languages that respondents have worked with (LanguageHaveWorkedWith).
- **Top 10 databases:** Show the top 10 databases that respondents have used (DatabaseHaveWorkedWith).
- **Platforms:** Visualize the different platforms that respondents have worked with (PlatformHaveWorkedWith).
- **Top 10 web frameworks:** Display the top 10 web frameworks respondents have used (WebframeHaveWorkedWith).

Future technology trends tab

- **Top 10 languages desired for next year:** Display the top 10 programming languages respondents want to learn next year (LanguageWantToWorkWith).
- **Top 10 databases desired for next year:** Show the top 10 databases respondents want to learn next year (DatabaseWantToWorkWith).
- **Desired platforms for next year:** Visualize the platforms respondents want to work with next year (PlatformWantToWorkWith).
- **Top 10 web frameworks desired for next year:** Display the top 10 web frameworks respondents want to learn next year (WebframeWantToWorkWith).

Demographics tab

- **Countries:** Show the number of respondents from various countries (Country).
- **Age groups:** Display respondents by age group (Age).
- **Education level:** Visualize respondents classified by their highest education level (EdLevel).



Skills Network

Respondent Classified by Age Group (Pie chart)

Employment Status Distribution (Pie chart)

Respondent by Country (Pie chart or Map chart)

Respondent Classified by Education Level (Pie chart)

Primary Coding Activities (Pie chart)

Top 10 LanguageHaveWorkedWith (Bar chart)

Top 10 DatabaseHaveWorkedWith (Column chart)

PlatformHaveWorkedWith (Word cloud chart)

Top 10 WebframeHaveWorkedWith (Hierarchy bubble chart/ Scatter Bubble)

Top 10 LanguageWantToWorkWith (Bar chart)

Top 10 DatabaseWantToWorkWith (Column chart)

PlatformWantToWorkWith (Tree map chart)

Top 10 WebframeWantToWorkWith (Hierarchy bubble chart/ Scatter Bubble)?