

Technical Assessment Guide

Astronauts

About the Data Set :

This dataset was published by the National Aeronautics and Space Administration as the "Astronaut Fact Book" (April 2013 edition). Active astronauts' mission names and flight statistics were updated from the NASA website.

Format : csv file

Columns:

Name, Year, Group, Status, Birth Date, Birth Place, Gender, Alma Mater, Undergraduate Major, Graduate Major, Military Rank, Military Branch, Space Flights, Space Flight (hr), Space Walks, Space Walks (hr), Missions, Death Date, Death Mission

Data Analyst Questions

Use your preferred data processing tool/language (e.g. jupyter notebook, alteryx, pyspark, R, SQL etc) to answer any two of the following questions.

Please refrain from using excel or any other spreadsheet tool to answer these questions.

Proper comments and unit test cases are appreciated.

Share the output data & the code.

What is the gender diversity among the Astronauts?

Gender Count

0 Female 50

1 Male 307

What percentage of Astronauts has the keyword "Engineering" in their Undergraduate degree?

Percentage of astronauts with 'Engineering' in their undergraduate degree: 55.46%

How many of them have been part of multiple space missions?

Number of astronauts with multiple space missions: 245

How many of them were born in "Philadelphia?"

Number of astronauts born in Philadelphia: 6

Use a data visualisation tool to identify & tell an interesting story from the dataset.