

# [mlcourse.ai](https://mlcourse.ai). Assignment #1 (demo)

Total points 9/10 ?

Exploratory data analysis with Pandas

✓ 1. How many men and women (sex feature) are represented in this dataset? \* 1/1

- ☒ 21790 men and 10771 women ✓
- ☐ 16346 men and 12532 women
- ☐ 21790 women and 10771 men
- ☐ 16346 women and 12532 men

✓ 2. What is the average age (age feature) of women? \* 1/1

- ☐ 34.67
- ☐ 35.95
- ☒ 36.86 ✓
- ☐ 37.04

✓ 3. What is the percentage of German citizens (native-country feature)? \* 1/1

☐ 1.13

☒ 0.42

☐ 1.42

☐ 0.36



✓ 4. What are the mean and standard deviation of age for those who earn more than 50K per year (salary feature)? \* 1/1

☐ 45 +- 9.5 years

☐ 42 +- 11.5 years

☐ 41 +- 12.5 years

☒ 44 +- 10.5 years



✓ 5. What are the mean and standard deviation of age for those who earn less than 50K per year? \* 1/1

☒ 37 +- 14 years

☐ 38 +- 14 years

☐ 39 +- 15 years

☐ 40 +- 15 years



✗ 6. Is it true that people who earn more than 50K have at least high school education? (education – Bachelors, Prof-school, Assoc-acdm, Assoc-voc, Masters or Doctorate feature) \* 0/1

☒ Yes

☐ No

✗

Correct answer

☒ No

✓ 7. Find the maximum age of men of Amer-Indian-Eskimo race. \* 1/1

☐ 78

☒ 82

☐ 87

☐ 88

✓

✓ 8. Among whom is the proportion of those who earn a lot (>50K) greater: 1/1 married or single men (marital-status feature)? Consider as married those who have a marital-status starting with Married (Married-civ-spouse, Married-spouse-absent or Married-AF-spouse), the rest are considered bachelors. \*

☒ Among married

☐ Among single

✓

✓ 9. What is the maximum number of hours a person works per week (hours-per-week feature)? How many people work such a number of hours, and what is the percentage of those who earn a lot (>50K) among them? \*

1/1

- ☐ 102 hours/week, 20 people, 41% are rich
- ☐ 99 hours/week, 95 people, 30% are rich
- ☒ 99 hours/week, 85 people, 29% are rich
- ☐ 90 hours/week., 70 people, 34% are rich



✓ 10. Count the average time of work (hours-per-week) for those who earn a little and a lot (salary) for each country (native-country). What will these be for Japan? \*

1/1

- ☒ 41 and 48
- ☐ 46 and 43
- ☐ 44 and 48
- ☐ 41 and 40



Do you have any remarks concerning the assignment? In case of obvious errors/typos please use GitHub issues and/or pull requests (<https://github.com/Yorko/mlcourse.ai>).

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☐ Sure!

☒ Not this time



Correct answer

☒ Sure!

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