

► Welcome

► Introduction:  
Machine  
Learning  
concepts

▼ **Module 1. The  
Predictive  
Modeling  
Pipeline**

Module overview

**Tabular data  
exploration**

Quiz M1



**Fitting a scikit-  
learn model on  
numerical data**

Quiz M1



**Handling  
categorical data**

Quiz M1



**Wrap-up quiz**

Wrap-up quiz



**Main take-away**

► Module 2.  
Selecting the  
best model

► Module 3.  
Hyperparameter  
tuning

## ✓ Quiz M1.01

Note: For each question **make sure you select all of the correct options**— there may be more than one! Don't forget to use the sandbox notebook if you need.

### Question 1 (1/1 point)

In the notebook "First look at our dataset", we used pandas and specifically

```
adult_census = pd.read_csv("../datasets/adult-census.csv")
```

 to:

☒ a) load a comma-separated values file

☐ b) load a dataset already included in the pandas package

☐ c) load a file only containing the survey features

☐ d) load a file only containing the target of our classification problem: whether or not a person has a low or high income salary

☒ e) load a file containing both the features and the target for our classification problem



*Select all answers that apply*

*You have used 1 of 2 submissions*

### Question 2 (1/1 point)

In the previous notebook, we used:

- ▶ Module 5.  
Decision tree  
models
- ▶ Module 6.  
Ensemble of  
models
- ▶ Module 7.  
Evaluating  
model  
performance
- ▶ Conclusion
- ▶ Appendix

☒ b) pandas and seaborn to visually inspect the dataset

☐ c) numpy and scipy to perform numerical inspection (for instance using `scipy.optimize.minimize` )

☐ d) scikit-learn to fit some machine learning models



*Select all answers that apply*

*You have used 1 of 2 submissions*

### Question 3 (1/1 point)

How is a tabular dataset organized?

☐ a) a column represents a sample and a row represents a feature

☒ b) a column represents a feature and a row represents a sample

☐ c) the target variable is represented by a row

☒ d) the target variable is represented by a column



*Select all answers that apply*

*You have used 1 of 2 submissions*

### Question 4 (1/1 point)

A categorical variable is:

☐ b) a variable with continuous numerical values

☒ c) a variable with a finite set of possible values ✓

*You have used 1 of 1 submissions*

## YOUR EXPERIENCE

According to you, this whole 'Tabular data exploration' lesson of the course was:

- |   |            |
|---|------------|
| <input checked="" type="radio"/> <b>Adapted to my skills</b>    | <b>78%</b> |
| <input type="radio"/> <b>Too easy, I got bored</b>              | <b>19%</b> |
| <input type="radio"/> <b>Difficult but I was able to follow</b> | <b>4%</b>  |
| <input type="radio"/> <b>Too difficult</b>                      | <b>0%</b>  |

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Results gathered from 112 respondents.

To follow this lesson, I spent:

- |  |            |
|--|------------|
| <input checked="" type="radio"/> <b>less than 30 minutes</b> | <b>59%</b> |
| <input type="radio"/> <b>30 min to 1 hour</b>                | <b>30%</b> |
| <input type="radio"/> <b>1 to 2 hours</b>                    | <b>9%</b>  |
| <input type="radio"/> <b>2 to 4 hours</b>                    | <b>1%</b>  |
| <input type="radio"/> <b>I don't know</b>                    | <b>1%</b>  |
| <input type="radio"/> <b>more than 4 hours</b>               | <b>0%</b>  |

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