edX   **Microsoft:** DAT210x Programming with Python for Data Science

2. Data And Features > Lecture: Determining Features > Knowledge Checks

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1. The Big Picture

2. Data And Features

Lecture: Features Premiere
Quiz

Lecture: Determining Features
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Lecture: Manipulating Data
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Lecture: Feature Representation
Quiz

Lecture: Wrangling Data
Quiz

Lab: Data and Features
Lab

Dive Deeper

Review Question 1

(1 point possible)
The best features are...

- ○ Your raw data

- ○ Those that are highly correlated

- ○ Those with the most variance

- ○ Those with the least variance

- ● Those pertaining to the task you're trying to solve ✔

You have used 2 of 2 submissions

Review Question 2

▶ 3. Exploring Data

▶ 4. Transforming Data

▶ 5. Data Modeling

(1 point possible)

Having been given a very wide (many features) dataset of patient medical records, let's say you want to trim it down to only those features that might have a correlation with a patient's allergies. Which **one** of the following features is **least likely** to be statistically relevant to a person's allergies?

○ Patient Drug Prescriptions

◉ Patient Eye Color ✔

○ Patient DNA

○ Patient Environment

You have used 1 of 2 submissions

Review Question 3

(1/1 point)

When building out your dataset initially, what are the **three** things should you focus on the most?

☐ Collecting more features than samples, so that each observation is documented in great detail.

☑ Collecting more samples than features so that the mathematics required for machine learning works out well. ✔

☑　Collecting features, even if independently they don't do a great job at answering your dataset's question.　✔

☐　Ensure you only collect features that directly answer your question without ambiguity.

☑　Let your intuition your question, and expertise in the domain of your issue, drive you to choosing appropriate features.　✔

✔

EXPLANATION

The two things that you should *not* be focusing on were both discussed in the video lecture, as well as in the reading materials.

You have used 1 of 2 submissions