Goskills

Mistakes to Avoid in Machine Learning

GoSkills online course syllabus

Skill level
Beginner

Lessons
17

Accredited by
Verified by GoSkills

Pre-requisites
No prior experience needed

Video duration
39m

Estimated study time
39m 37s

Instructor
Brett Vanderblock

Introduction

1 Avoiding machine learning mistakes

2 Using the exercise files

There are notebooks included with this course. After watching this video, you'll be able to download and make use of the exercise files.

Mistakes to Avoid

3 Assuming data is good to go

Assumptions can spell disaster. After watching this video you'll be able to determine if your data is actually ready for modeling.

4 Neglecting to consult subject matter experts

Make sure you are solving the question that's being asked.

5 Overfitting your models

After watching this video you'll be able to prevent overfitting in your predictive models.

6 Not standardizing your data

Standardizing is a step for a reason, so don't skip it! After watching this video you'll be able to normalize your data effectively.

7 Focusing on the wrong factors

Don't spend time perfecting your models if your data isn't adequate.

8 Data leakage

It's possible when working with data that the wrong data is included in your model. After watching this video you'll be able to prevent data leakage.

9 Forgetting traditional statistics tools

If you need to understand the past, traditional regression techniques might be a better option.

10 Assuming deployment will be a breeze

Don't get caught spending hours fixing your model at the last minute.

11 Assuming Machine Learning is the answer

Sometimes Machine Learning is not the best method.

12 Developing in a silo

Your work is better when you collaborate. After watching this video you'll be able to seek valuable input from others regarding your code.

13 Not treating for imbalanced sampling

A common error in Machine Learning is having a disproportionate ratio of observations in each class you're working with.

14 Interpreting your coefficients without properly treating for multicollinearity

After watching this video you'll be able to treat your models for multicollinearity.

15 Evaluating by accuracy alone

After watching this video you'll be able to evaluate your models effectively using a variety of checks and balances.

16 Giving overly technical presentations

Avoid making a confusing pitch with too much technical jargon.

Conclusion

17 Take your Machine Learning skills to the next level