⚠ Deadline: You must submit this week's assignments by **April 1, 2018, 11:59 PM PDT**.

ⓘ Like this course? Become an expert by joining the Deep Learning Specialization.

ML Strategy (1)

Learning Objectives

Understand why Machine Learning strategy is important

Apply satisficing and optimizing metrics to set up your goal for ML projects

Choose a correct train/dev/test split of your dataset

Understand how to define human-level performance

Use human-level perform to define your key priorities in ML projects

Take the correct ML Strategic decision based on observations of performances and dataset

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Introduction to ML Strategy

▶ Why ML Strategy 2 min

▶ Orthogonalization 10 min

Setting up your goal

- Single number evaluation metric 7 min
- Satisficing and Optimizing metric 5 min
- Train/dev/test distributions 6 min
- Size of the dev and test sets 5 min
- When to change dev/test sets and metrics 11 min

Comparing to human-level performance

- Why human-level performance? 5 min
- Avoidable bias 6 min
- Understanding human-level performance 11 min
- Surpassing human-level performance 6 min

Improving your model performance 4 min

Machine Learning flight simulator

Machine Learning flight simulator 2 min

Quiz:
Bird recognition in the city of Peacetopia (case study) 15 questions

Heroes of Deep Learning (Optional)

Andrej Karpathy interview 15 min