4.3 Metalearning and autoML

.... special slides yikes

Variety of Models

 More specific knowledge, that is, models for smaller subsets, eventually, individual entities

Model Management

Bias

- Can't live with it: given a dataset and a learning algorithm, not every model is possible
- Can't live without it: bias-free learning is futile
- Bias-free algorithm: can learn any model but doesn't have any preference for one over the other

Metalearning/automl Role

- Metalearning for algorithm selection
 - induce model from metadata to predict the best algorithm on a new dataset

Opportunities and Challenges

- Dataset morphing to understand ML algorithm behavior
- · dataset characterization
- dataset embeddings

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