How Deep Learning Works

Deep Learning — Unit 2

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Outline

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[whiteboard equations + Arsenal]

[playground]

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[whiteboard equations + Arsenal]

[playground]

Take-Home Exercise I

Artificial Neural Network Language

- solve another TF Playground problem, e.g., a regression
- verbalize weights, biases & network architecture
- verbalize Arsenal items

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[how might you...?]

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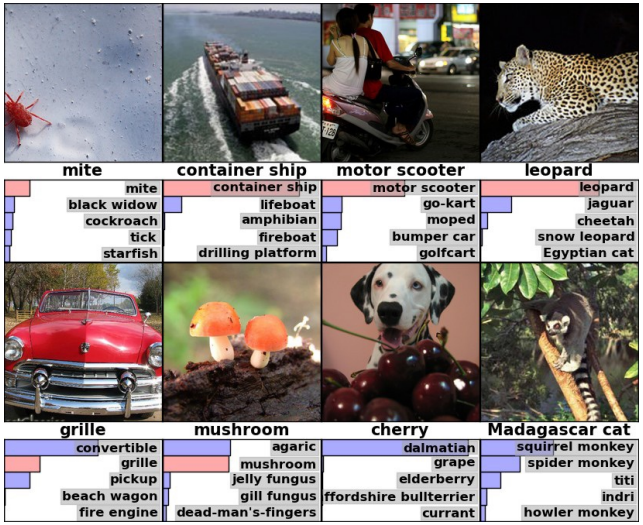
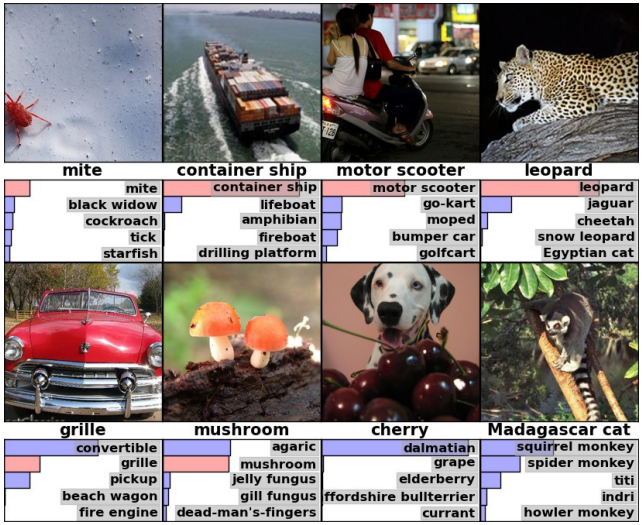


Dataset	Classes	Train Samples
AG's News	4	120,000
Sogou News	5	450,000
DBPedia	14	560,000
Yelp Review Polarity	2	560,000
Yelp Review Full	5	650,000
Yahoo! Answers	10	1,400,000
Amazon Review Full	5	3,000,000
Amazon Review Polarity	2	3,600,000



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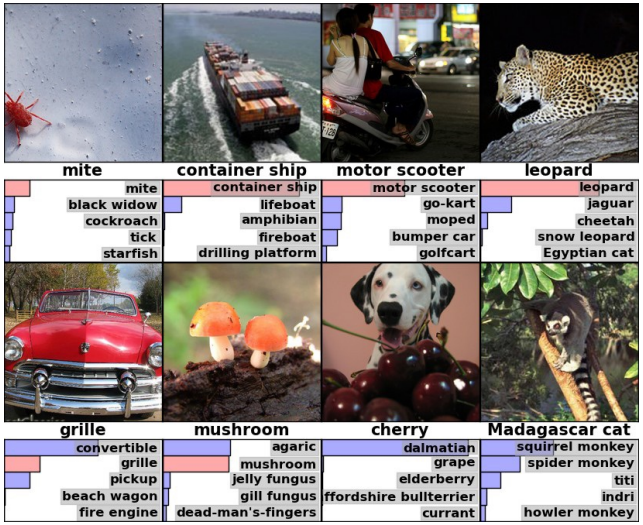

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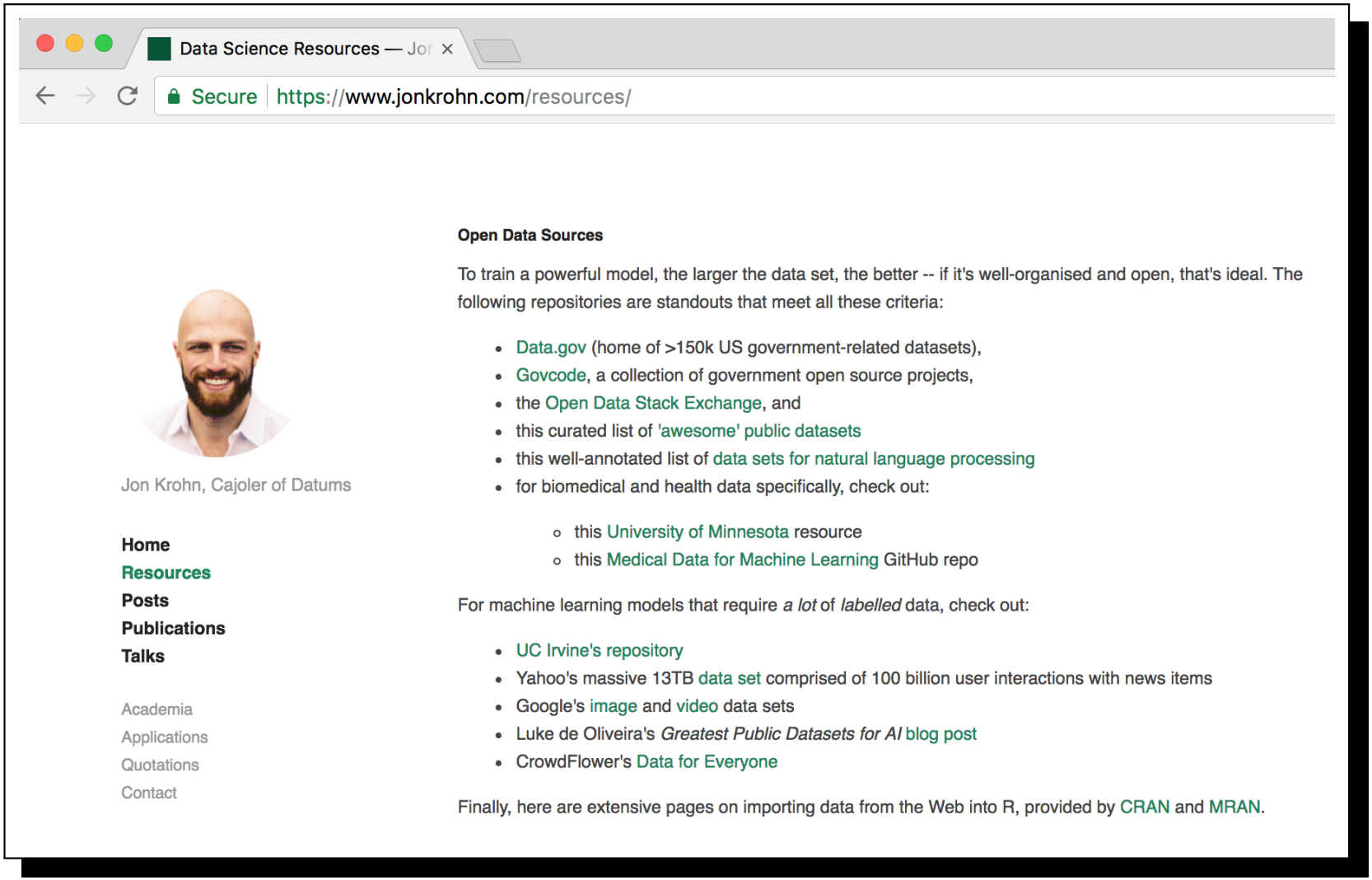

[Data Is Plural]

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  2. problem to solve –> data set
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  1. image classification with non-MNIST images, e.g., fashion MNIST, scraped image categories
  2. sentiment analysis with Zhang, Zhao & LeCun (2015) yelp dataset

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