

Train it with a corpus

We'll make computers brighter With their "and" and "or"ing They'll beat Alan Turing. We'll make computers brighter Smarter than a porpoise

Verse 3

Markov model Chinese Room Nim-Rand in a matrix form Labeled data, missing data logic of Boole **Discount rank list Altavista Wordnet** IR bag-of-words flip around with Bayes Rule

Verse 4

Rap song n-queen Susan swallowed something green anguage model classify take a max and multiply Zipf's law trigrams smooth it out with bigrams Naïve Bayes winning plays write another program

Chorus

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Verse 5

HMM part-of-speech they will learn if you will teach Baum-Welch if you please **Rush Hour and Analogies** Weighted coins network lags Viterbi finds most likely tags Start running watch for ties expectation maximize

Verse 6

Learning function feature try learning who's a girl overfit PAC bounds build your own decision tree Too big memorize cross validate to generalize supervising pure leaf fit the function to a 't'

Chorus

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Verse 7

Delta rule backprop
hidden unit don't stop
Learn pairs sum squares
linear perceptron
Error surface is quite bent
just descend the gradient
and-or sigmoid
nonlinear regression

Bridge/Chorus

XOR learning rate
squash the sum and integrate
Neural net split the set
How much better can it get?
Chorus: We'll make computers brighter
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Verse 8

LSI max and min
local search is back again
TOEFL pick best
essay grade pass the test
Matrix Plato SVD
vectors all in high D
All the points are in the space
don't you make an Eigenface!

Verse 9

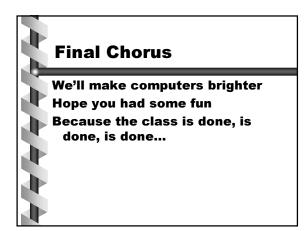
Segmentation Saturn spin
Probabilities a win

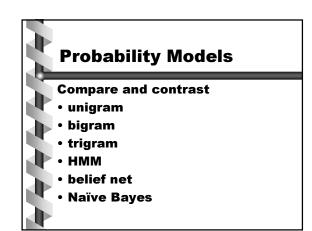
Q and P iteratively
Bayes net CPT

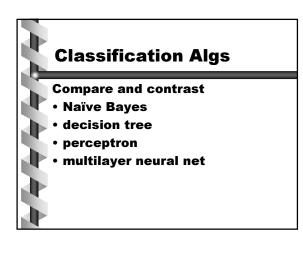
Autopilots in the sky
Play chess masters for a tie
Alan Alda robots cry
All of this is in Al!

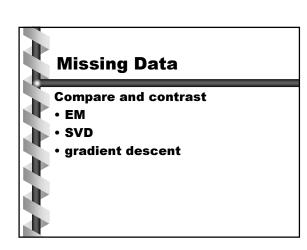
Chorus

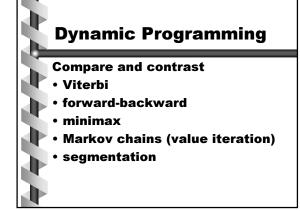
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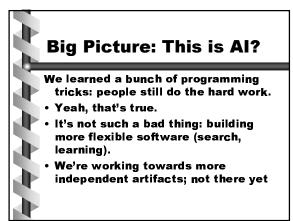














Thank You!

Thanks for your help!

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- Peter Stone
 - all of you!