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 models ! Unsmoothed n-  
 gram models (review) !  
 Smoothing - Add-one  
 (Laplacian) - Good-Turing  
 ! Unknown words !  
 Evaluating n-gram models  
 ! Combining estimators -  
 (Deleted) interpolation -  
 Backoff Unknown words !  
 Closed vocabulary -  
 Vocabulary is known in  
 advance - Test set will  
 contain only these  
 words N-gram models

Predicting the next word -  
 Cornell University n-2w  
 $n-1w$  n, to compute  $P(w$   
 $n|w$  n-2w n-1), we can  
 estimate its probability by  
 using the bigram  
 probability  $P(w$  n|w n-1 ).  
 - If there are no examples  
 of the bigram to compute  
 $P(w$  n|w n-1), we can use  
 the unigram probability  
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Epidemiology, Cornell University, Ithaca, NY 1994 - 1995 Visiting Professor, F.C. Donders Chair, University of Utrecht, Utrecht, The Netherlands Yrjö Gröhn | Cornell University College of Veterinary Medicine 1 N-gram models Last class! Unknown words! Evaluating n-gram models! Problems with n-gram models Problems: The perils of overfitting! N1grams only work well for word prediction if the test corpus looks like the training corpus - In real life, it often doesn't - We need to train robust models that generalize! - One kind of generalization: getting rid of the 0's! 5 smoothing 1 - N-gram models Last class Unknown words ... Nozick holds a B.S. in Systems Analysis and Engineering from the George Washington University and a M.S.E and Ph.D. in Systems Engineering from the University of Pennsylvania. Research Interests Dr. Nozick's primary research interest is the development of mathematical models for use in the management of complex systems. Linda K. Nozick | Cornell Engineering - Cornell University Epidemiological models of COVID-19 that are used to guide policies

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 and 1995 - 2001 Chief,  
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 NY 1994 - 1995 Visiting  
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$n-2w$   $n-1w$   $n$ , to compute  $P(w_n | w_{n-2w} w_{n-1})$ , we can estimate its probability by using the bigram probability  $P(w_n | w_{n-1})$ .  
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