

plified by the fact that the word “milk” often occurs soon after the word “cow”, but beyond a certain point any improvement in performance must result from a deeper understanding of the text’s meaning.

Although standard RNNs are very expressive, we found that achieving competitive results on character-level language modeling required the development of a different type of RNN that was better suited to our application. This new “MRNN” architecture uses multiplicative connections to allow the current input character to determine the hidden-to-hidden weight matrix. We trained MRNNs on over a hundred of megabytes of text for several days using 8 Graphics Processing Units in parallel to perform significantly better than one of the best word-agnostic single character-level language models: the sequence memorizer (Wood et al., 2009; Gasthaus et al., 2010), which is a hierarchical nonparametric Bayesian method. It defines a prior process on the set of predictions at every conceivable context, with judiciously chosen details that make approximate inference computationally tractable. The memorizer induces dependencies between its predictions by making similar predictions at similar contexts. Although intelligent marginalization techniques are able to eliminate all but a relatively small number of the random variables (so the datastructures used scale linearly with the amount of data), its memory requirements are still prohibitively expensive for large datasets, which is a direct consequence of its nonparametric nature.

While our method performs at the state of the art for pure character-level models, its compression performance falls short of the best models which have explicit knowledge of words, the most powerful of these being PAQ8hp12 (Mahoney, 2005). PAQ is a mixture model of a large number of well-chosen context models whose mixing proportions are computed by a neural network whose weights are a function of the current context, and whose predictions are further combined with a neural-network like model. Unlike standard compression techniques, some of PAQ’s context models not only consider contiguous contexts but also contexts with “gaps”, allowing it to capture some types of longer range structures cheaply. More significantly, PAQ is not word-agnostic, because it uses a combination of character-level and word-level models. PAQ also preprocesses the data with a dictionary of common English words which we disabled, because it gave PAQ an unfair advantage over models that do not use such task-specific (and indeed, English-specific) explicit prior knowledge. The numerous mixture components of PAQ were chosen because they improved performance on a development set, so in this respect PAQ is similar in model complexity to the winning entry of the netflix prize (Bell et al., 2007).

Finally, language models can be used to “generate” lan-

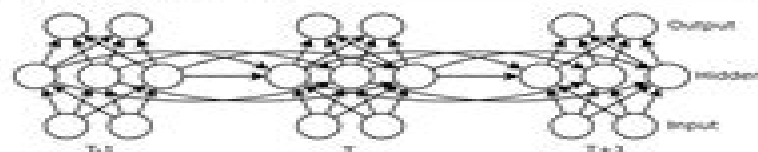


Figure 1. A Recurrent Neural Network is a very deep feedforward neural network whose weights are shared across time. The non-linear activation function used by the hidden units is the source of the RNN’s rich dynamics.

guage, and to our surprise, the text generated by the MRNNs we trained exhibited a significant amount of interesting and high-level linguistic structure, featuring a large vocabulary, a considerable amount of grammatical structure, and a wide variety of highly plausible proper names that were not in the training set. Mastering the vocabulary of English did not seem to be a problem for the MRNN: it generated very few uncapitalized non-words, and those that it did generate were often very plausible, like “homosomalist” or “un-ameliary”. Of particular interest was the fact that the MRNN learned to balance parentheses and quotes over long distances (e.g., 30 characters). A character-level N -gram language model could only do this by modeling 31-grams, and neither Memoizer nor PAQ are representationally capable of balancing parentheses because of their need for exact context matches. In contrast, the MRNN’s nonlinear dynamics enables it to extract higher level “knowledge” from the text, and there are no obvious limits to its representational power because of the ability of its hidden states to perform general computation.

2. Recurrent Neural Networks

A Recurrent Neural Network is a straightforward adaptation of the standard feed-forward neural network to allow it to model sequential data. At each timestep, the RNN receives an input, updates its hidden state, and makes a prediction (fig. 1). The RNN’s high dimensional hidden state and nonlinear evolution endow it with great expressive power, enabling the hidden state of the RNN to integrate information over many timesteps and use it to make accurate predictions. Even if the non-linearity used by each unit is quite simple, iterating it over time leads to very rich dynamics.

The standard RNN is formalized as follows: Given a sequence of input vectors $(x_1, \dots, x_T)$, the RNN computes a sequence of hidden states $(h_1, \dots, h_T)$ and a sequence of outputs $(o_1, \dots, o_T)$ by iterating the following equations

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Handbook of Medical Image Processing and Analysis Isaac Bankman, 2008-12-24 The Handbook of Medical Image Processing and Analysis is a comprehensive compilation of concepts and techniques used for processing and analyzing medical images after they have been generated or digitized The Handbook is organized into six sections that relate to the main functions enhancement segmentation quantification registration visualization and compression storage and communication The second edition is extensively revised and updated throughout reflecting new technology and research and includes new chapters on higher order statistics for tissue segmentation tumor growth modeling in oncological image analysis analysis of cell nuclear features in fluorescence microscopy images imaging and communication in medical and public health informatics and dynamic mammogram retrieval from web based image libraries For those looking to explore advanced concepts and access essential information this second edition of Handbook of Medical Image Processing and Analysis is an invaluable resource It remains the most complete single volume reference for biomedical engineers researchers professionals and those working in medical imaging and medical image processing Dr Isaac N Bankman is the supervisor of a group that specializes on imaging laser and sensor systems modeling algorithms and testing at the Johns Hopkins University Applied Physics Laboratory He received his BSc degree in Electrical Engineering from Bogazici University Turkey in 1977 the MSc degree in Electronics from University of Wales Britain in 1979 and a PhD in Biomedical Engineering from the Israel Institute of Technology Israel in 1985 He is a member of SPIE Includes contributions from internationally renowned authors from leading institutions NEW 35 of 56 chapters have been revised and updated Additionally five new chapters have been added on important topics including Nonlinear 3D Boundary Detection Adaptive Algorithms for Cancer Cytological Diagnosis Dynamic Mammogram Retrieval from Web Based Image Libraries Imaging and Communication in Health Informatics and Tumor Growth Modeling in Oncological Image Analysis Provides a complete collection of algorithms in computer processing of medical images Contains over 60 pages of stunning four color images

Handbook of Natural Language Processing Robert Dale, Hermann Moisl, Harold Somers, 2000-07-25 This study explores the design and application of natural language text based processing systems based on generative linguistics empirical corpus analysis and artificial neural networks It emphasizes the practical tools to accommodate the selected system

Explainable AI: Interpreting, Explaining and Visualizing Deep Learning Wojciech Samek, Grégoire Montavon, Andrea Vedaldi, Lars Kai Hansen, Klaus-Robert Müller, 2019-09-10 The development of intelligent systems that can take decisions and perform autonomously might lead to faster and more consistent decisions A limiting factor for a broader adoption of AI technology is the inherent risks that come with giving up human control and oversight to intelligent machines For sensitive tasks involving critical infrastructures and affecting human well being or health it is crucial to limit the possibility of improper non robust and unsafe decisions and actions Before deploying an AI system we see a strong need to

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Proceedings of 6th International Conference on Recent Trends in Computing Rajendra Prasad Mahapatra, B. K. Panigrahi, Brajesh K. Kaushik, Sudip Roy, 2021-04-20 This book is a collection of high quality peer reviewed research papers presented at Sixth International Conference on Recent Trends in Computing ICRTC 2020 held at SRM Institute of Science and Technology Ghaziabad Delhi India during 3 4 July 2020 The book discusses a wide variety of industrial engineering and scientific applications of the emerging techniques The book presents original works from researchers from academic and industry in the field of networking security big data and the Internet of things

Algorithms for Computational Biology Daniel Figueiredo, Carlos Martín-Vide, Diogo Pratas, Miguel A. Vega-Rodríguez, 2017-05-26 This book constitutes the proceedings of the 4th International Conference on Algorithms for Computational Biology AlCoB 2017 held in Aveiro Portugal in June 2017 The 10 full papers presented together with 2 invited papers were carefully reviewed and selected from 24 submissions They are organized in the following topical sections Graph Algorithms for Computational Biology Phylogenetics and Sequence Analysis and Other Biological Processes

Pattern Recognition and Signal Analysis in Medical Imaging Anke Meyer-Baese, Volker J. Schmid, 2014-03-21 Medical imaging is one of the heaviest funded biomedical engineering

research areas The second edition of Pattern Recognition and Signal Analysis in Medical Imaging brings sharp focus to the development of integrated systems for use in the clinical sector enabling both imaging and the automatic assessment of the resultant data Since the first edition there has been tremendous development of new powerful technologies for detecting storing transmitting analyzing and displaying medical images Computer aided analytical techniques coupled with a continuing need to derive more information from medical images has led to a growing application of digital processing techniques in cancer detection as well as elsewhere in medicine This book is an essential tool for students and professionals compiling and explaining proven and cutting edge methods in pattern recognition for medical imaging New edition has been expanded to cover signal analysis which was only superficially covered in the first edition New chapters cover Cluster Validity Techniques Computer Aided Diagnosis Systems in Breast MRI Spatio Temporal Models in Functional Contrast Enhanced and Perfusion Cardiovascular MRI Gives readers an unparalleled insight into the latest pattern recognition and signal analysis technologies modeling and applications Artificial Intelligence and Soft Computing Leszek Rutkowski, Marcin Korytkowski, Rafal Scherer, Ryszard Tadeusiewicz, Lotfi A. Zadeh, Jacek M. Zurada, 2013-06-04 The two volume set LNAI 7894 and LNCS 7895 constitutes the refereed proceedings of the 12th International Conference on Artificial Intelligence and Soft Computing ICAISC 2013 held in Zakopane Poland in June 2013 The 112 revised full papers presented together with one invited paper were carefully reviewed and selected from 274 submissions The 57 papers included in the first volume are organized in the following topical sections neural networks and their applications fuzzy systems and their applications pattern classification and computer vision image and speech analysis *Artificial Intelligence, Evolutionary Computing and Metaheuristics* Xin-She Yang, 2012-07-27 Alan Turing pioneered many research areas such as artificial intelligence computability heuristics and pattern formation Nowadays at the information age it is hard to imagine how the world would be without computers and the Internet Without Turing s work especially the core concept of Turing Machine at the heart of every computer mobile phone and microchip today so many things on which we are so dependent would be impossible 2012 is the Alan Turing year a centenary celebration of the life and work of Alan Turing To celebrate Turing s legacy and follow the footsteps of this brilliant mind we take this golden opportunity to review the latest developments in areas of artificial intelligence evolutionary computation and metaheuristics and all these areas can be traced back to Turing s pioneer work Topics include Turing test Turing machine artificial intelligence cryptography software testing image processing neural networks nature inspired algorithms such as bat algorithm and cuckoo search and multiobjective optimization and many applications These reviews and chapters not only provide a timely snapshot of the state of art developments but also provide inspiration for young researchers to carry out potentially ground breaking research in the active diverse research areas in artificial intelligence cryptography machine learning evolutionary computation and nature inspired metaheuristics This edited book can serve as a timely reference for graduates researchers and engineers in artificial

intelligence computer sciences computational intelligence soft computing optimization and applied sciences Advanced Intelligent Computing Technology and Applications De-Shuang Huang, Chuanlei Zhang, Wei Chen, 2024-08-13 This 13 volume set LNCS 14862 14874 constitutes in conjunction with the 6 volume set LNAI 14875 14880 and the two volume set LNBI 14881 14882 the refereed proceedings of the 20th International Conference on Intelligent Computing ICIC 2024 held in Tianjin China during August 5 8 2024 The total of 863 regular papers were carefully reviewed and selected from 2189 submissions This year the conference concentrated mainly on the theories and methodologies as well as the emerging applications of intelligent computing Its aim was to unify the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications Therefore the theme for this conference was Advanced Intelligent Computing Technology and Applications Papers that focused on this theme were solicited addressing theories methodologies and applications in science and technology

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