Texttransformer 175

Lewis Tunstall,Leandro von Werra,Thomas Wolf

<u>Natural Language Processing with Transformers</u> Lewis Tunstall,Leandro von Werra,Thomas Wolf,2022-01-26 Since their introduction in 2017, transformers have quickly become the dominant architecture for achieving state-of-the-art results on a variety of natural language processing tasks. If you're a data scientist or coder, this practical book shows you how to train and scale these large models using Hugging Face Transformers, a Python-based deep learning library. Transformers have been used to write realistic news stories, improve Google Search queries, and even create chatbots that tell corny jokes. In this guide, authors Lewis Tunstall, Leandro von Werra, and Thomas Wolf, among the creators of Hugging Face Transformers, use a hands-on approach to teach you how transformers work and how to integrate them in your applications. You'll quickly learn a variety of tasks they can help you solve. Build, debug, and optimize transformer models for core NLP tasks, such as text classification, named entity recognition, and question answering Learn how transformers can be used for cross-lingual transfer learning Apply transformers in real-world scenarios where labeled data is scarce Make transformer models efficient for deployment using techniques such as distillation, pruning, and quantization Train transformers from scratch and learn how to scale to multiple GPUs and distributed environments

Transformers for Natural Language Processing Denis Rothman,2021-01-29 Publisher's Note: A new edition of this book is out now that includes working with GPT-3 and comparing the results with other models. It includes even more use cases, such as casual language analysis and computer vision tasks, as well as an introduction to OpenAI's Codex. Key FeaturesBuild and implement state-of-the-art language models, such as the original Transformer, BERT, T5, and GPT-2, using concepts that outperform classical deep learning modelsGo through hands-on applications in Python using Google Colaboratory Notebooks with nothing to install on a local machineTest transformer models on advanced use casesBook Description The transformer architecture has proved to be revolutionary in outperforming the classical RNN and CNN models in use today. With an apply-as-you-learn approach, Transformers for Natural Language Processing investigates in vast detail the deep learning for machine translations, speech-to-text, text-to-speech, language modeling, question answering, and many more NLP domains with transformers. The book takes you through NLP with Python and examines various eminent models and datasets within the transformer architecture created by pioneers such as Google, Facebook, Microsoft, OpenAI, and Hugging Face. The book trains you in three stages. The first stage introduces you to transformer architectures, starting with the original transformer, before moving on to RoBERTa, BERT, and DistilBERT models. You will discover training methods for smaller transformers that can outperform GPT-3 in some cases. In the second stage, you will apply transformers for Natural Language Understanding (NLU) and Natural Language Generation (NLG). Finally, the third stage will help you grasp advanced language understanding techniques such as optimizing social network datasets and fake news identification. By the end of this NLP book, you will understand transformers from a cognitive science perspective and be proficient in applying pretrained transformer models by tech giants to various datasets. What you will learnUse the latest pretrained transformer modelsGrasp the workings of the original Transformer, GPT-2, BERT, T5, and other transformer modelsCreate language understanding Python programs using concepts that outperform classical deep learning modelsUse a variety of NLP platforms, including Hugging Face, Trax, and AllenNLPApply Python, TensorFlow, and Keras programs to sentiment analysis, text summarization, speech recognition, machine translations, and moreMeasure the productivity of key transformers to define their scope, potential, and limits in productionWho this book is for Since the book does not teach basic programming, you must be familiar with neural networks, Python, PyTorch, and TensorFlow in order to learn their implementation with Transformers. Readers who can benefit the most from this book include experienced deep learning & NLP practitioners and data analysts & data scientists who want to process the increasing amounts of language-driven data.

Open-Set Text Recognition Xu-Cheng Yin,

Compiler Construction ,

Responsible AI in the Enterprise Adnan Masood,Heather Dawe,2023-07-31 Build and deploy your AI models successfully by exploring model governance, fairness, bias, and potential pitfalls Purchase of the print or Kindle book includes a free PDF eBook Key Features Learn ethical AI principles, frameworks, and governance Understand the concepts of fairness assessment and bias mitigation Introduce explainable AI and transparency in your machine learning models Book DescriptionResponsible AI in the Enterprise is a comprehensive guide to implementing ethical, transparent, and compliant AI systems in an organization. With a focus on understanding key concepts of machine learning models, this book equips you with techniques and algorithms to tackle complex issues such as bias, fairness, and model governance. Throughout the book, you'll gain an understanding of FairLearn and InterpretML, along with Google What-If Tool, ML Fairness Gym, IBM AI 360 Fairness tool, and Aequitas. You'll uncover various aspects of responsible AI, including model interpretability, monitoring and management of model drift, and compliance recommendations. You'll gain practical insights into using AI governance tools to ensure fairness, bias mitigation, explainability, privacy compliance, and privacy in an enterprise setting. Additionally, you'll explore interpretability toolkits and fairness measures offered by major cloud AI providers like IBM, Amazon, Google, and Microsoft, while discovering how to use FairLearn for fairness assessment and bias mitigation. You'll also learn to build explainable models using global and local feature summary, local surrogate model, Shapley values, anchors, and counterfactual explanations. By the end of this book, you'll be well-equipped with tools and techniques to create transparent and accountable machine learning models.What you will learn Understand explainable AI fundamentals, underlying methods, and techniques Explore model governance, including building explainable, auditable, and interpretable machine learning models Use partial dependence plot, global feature summary, individual condition expectation, and feature interaction Build explainable models with global and local feature summary, and influence functions in practice Design and build explainable machine learning pipelines with transparency Discover Microsoft FairLearn and marketplace for different open-source explainable AI tools and cloud platforms Who this book is for This book is for data scientists, machine learning engineers, AI practitioners, IT professionals, business stakeholders, and AI ethicists who are responsible for implementing AI models in their organizations.

<u>The Technology of Text</u> David H. Jonassen,1982 Abstract: Techniques for designing and developing text materials are described and elaborated for text development technologists. This book focuses on 2 broad categories of techniques for structuring textual materials, termed implicit (e.g.: discourse analysis, elaboration theory) and explicit (e.g.: algorithms, tables, diagrams) techniques. Implict techniques are concerned with the structure of the content and sequencing of the message; explicit techniques display the structure of the message. The 4 sections of the book address; implicit communication techniques; explicit textual design; specific design problems; and how individuals differentially interact with text materials, ranging from printed matter to television projections. (wz).

Natural Language Processing mit Transformern Lewis Tunstall,Leandro von Werra,Thomas Wolf,2023-02-11 Leistungsfähige State-of-the-Art-Sprachanwendungen mit vortrainierten Transformer-Modellen Transformer haben die NLP-Welt im Sturm erobert Von den Gründern von Hugging Face, der Plattform für vortrainierte Transformer-Modelle für TensorFlow und PyTorch Bietet einen fundierten und praxisnahen Überblick über die wichtigsten Methoden und Anwendungen im aktuellen NLP Hands-On: Jeder Programmierschritt kann in Jupyter Notebooks nachvollzogen werden Transformer haben sich seit ihrer Einführung nahezu über Nacht zur vorherrschenden Architektur im Natural Language Processing entwickelt. Sie liefern die besten Ergebnisse für eine Vielzahl von Aufgaben bei der maschinellen Sprachverarbeitung. Wenn Sie Data Scientist oder Programmierer sind, zeigt Ihnen dieses praktische Buch, wie Sie NLP-Modelle mit Hugging Face Transformers, einer Python-basierten Deep-Learning-Bibliothek, trainieren und skalieren können. Transformer kommen beispielsweise beim maschinellen Schreiben von Nachrichtenartikeln zum Einsatz, bei der Verbesserung von Google-Suchanfragen oder bei Chatbots. In diesem Handbuch zeigen Ihnen Lewis Tunstall, Leandro von Werra und Thomas Wolf, die auch die Transformers-Bibliothek von Hugging Face mitentwickelt haben, anhand eines praktischen Ansatzes, wie Transformer-basierte Modelle funktionieren und wie Sie sie in Ihre Anwendungen integrieren können. Sie werden schnell eine Vielzahl von Aufgaben wie Textklassifikation, Named Entity Recognition oder Question Answering kennenlernen, die Sie mit ihnen lösen können.

Text Technologies Elaine Treharne,Claude Willan,2019-11-26 The field of text technologies is a capacious analytical framework that focuses on all textual records throughout human history, from the earliest periods of traceable communication—perhaps as early as 60,000 BCE—to the present day. At its core, it examines the material history of communication: what constitutes a text, the purposes for which it is intended, how it functions,

and the social ends that it serves. This coursebook can be used to support any pedagogical or research activities in text technologies, the history of the book, the history of information, and textually based work in the digital humanities. Through careful explanations of the field, examinations of terminology and themes, and illustrated case studies of diverse texts—from the Cyrus cylinder to the Eagles' Hotel California—Elaine Treharne and Claude Willan offer a clear yet nuanced overview of how humans convey meaning. Text Technologies will enable students and teachers to generate multiple lines of inquiry into how communication—its production, form and materiality, and reception—is crucial to any interpretation of culture, history, and society.

Text Processing in Java Mitzi Morris,2014-01-01 This book teaches you how to master the subtle art of multilingual text processing and prevent text data corruption. It provides an introduction to natural language processing using Lucene and Solr. It gives you tools and techniques to manage large collections of text data, whether they come from news feeds, databases, or legacy documents. Each chapter contains executable programs that can also be used for text data forensics. Topics covered: Unicode code points Character encodings from ASCII and Big5 to UTF-8 and UTF-32LE Character normalization using International Components for Unicode (ICU) Java I/O, including working directly with zip, gzip, and tar files Regular expressions in Java Transporting text data via HTTP Parsing and generating XML, HTML, and JSON Using Lucene 4 for natural language search and text classification Search, spelling correction, and clustering with Solr 4 Other books on text processing presuppose much of the material covered in this book. They gloss over the details of transforming text from one format to another and assume perfect input data. The messy reality of raw text will have you reaching for this book again and again.

Discourse of Text Messaging Caroline Tagg,2012-05-17 Reveals the depth and complexity of the language used in SMS text communication, and how it exploits various linguistic resources to create identities.

Generative AI on AWS Chris Fregly,Antje Barth,Shelbee Eigenbrode,2023-11-13 Companies today are moving rapidly to integrate generative AI into their products and services. But there's a great deal of hype (and misunderstanding) about the impact and promise of this technology. With this book, Chris Fregly, Antje Barth, and Shelbee Eigenbrode from AWS help CTOs, ML practitioners, application developers, business analysts, data engineers, and data scientists find practical ways to use this exciting new technology. You'll learn the generative AI project life cycle including use case definition, model selection, model fine-tuning, retrieval-augmented generation, reinforcement learning from human feedback, and model quantization, optimization, and deployment. And you'll explore different types of models including large language models (LLMs) and multimodal models such as Stable Diffusion for generating images and Flamingo/IDEFICS for answering questions about images. Apply generative AI to your business use cases Determine which generative AI models are best suited to your task Perform prompt engineering and in-context learning Fine-tune generative AI models on your datasets with low-rank adaptation (LoRA) Align generative AI models to human values with reinforcement learning from human feedback (RLHF) Augment your model with retrieval-augmented generation (RAG) Explore libraries such as LangChain and ReAct to develop agents and actions Build generative AI applications with Amazon Bedrock

Machine Learning and Knowledge Extraction Andreas Holzinger,Peter Kieseberg,Federico Cabitza,Andrea Campagner,A Min Tjoa,Edgar Weippl,2023-08-21 This volume LNCS-IFIP constitutes the refereed proceedings of the 7th IFIP TC 5, TC 12, WG 8.4, WG 8.9, WG 12.9 International Cross-Domain Conference, CD-MAKE 2023 in Benevento, Italy, during August 28 – September 1, 2023. The 18 full papers presented together were carefully reviewed and selected from 30 submissions. The conference focuses on integrative machine learning approach, considering the importance of data science and visualization for the algorithmic pipeline with a strong emphasis on privacy, data protection, safety and security.

Foundation Models for Natural Language Processing Gerhard Paaß,Sven Giesselbach,2023-05-23 This open access book provides a comprehensive overview of the state of the art in research and applications of Foundation Models and is intended for readers familiar with basic Natural Language Processing (NLP) concepts. Over the recent years, a revolutionary new paradigm has been developed for training models for NLP. These models are first pre-trained on large collections of text documents to acquire general syntactic knowledge and semantic information. Then, they are fine-tuned for specific tasks, which they can often solve with superhuman accuracy. When the models are large enough, they can be instructed by prompts to solve new tasks without any fine-tuning. Moreover, they can be applied to a wide range of different media and problem domains, ranging from image and video processing to robot control learning. Because they provide a blueprint for solving many tasks in artificial intelligence, they have been called Foundation Models. After a brief introduction to basic NLP models the main pre-trained language models BERT, GPT and sequence-to-sequence transformer are described, as well as the concepts of self-attention and context-sensitive embedding. Then, different approaches to improving these models are discussed, such as expanding the pre-training criteria, increasing the length of input texts, or including extra knowledge. An overview of the best-performing models for about twenty application areas is then presented, e.g., question answering, translation, story generation, dialog systems, generating images from text, etc. For each application area, the strengths and weaknesses of current models are discussed, and an outlook on further developments is given. In addition, links are provided to freely available program code. A concluding chapter summarizes the economic opportunities, mitigation of risks, and potential developments of AI.

Advances in Information Retrieval Nazli Goharian,

Automatic Text Processing Gerard Salton,1989

Multilingual Text-to-Speech Synthesis Richard Sproat,1997-10-31 Multilingual Text-to-Speech Synthesis: The Bell Labs Approach is the first monograph-length description of the Bell Labs work on multilingual text-to-speech synthesis. Every important aspect of the system is described, including text analysis, segmental timing, intonation and synthesis. There is also a discussion of evaluation methodologies, as well as a chapter outlining some future areas of research. While the book focuses on the Bell Labs approach to the various problems of converting from text into speech, other approaches are discussed and compared. Thus, this book serves both the function of providing a single reference to an important strand of research in multilingual synthesis, while at the same time providing a source of information on current trends in the field. Chapters in this work were contributed by Richard Sproat, Jan van Santen, Bernd Möbius, Chilin Shih, Joseph Olive, Evelyne Tzoukermann, all of Bell Labs, and Kazuaki Maeda of the University of Pennsylvania.

Text-made Text Bill Cope,Mary Kalantzis,2003

Advancing Natural Language Processing in Educational Assessment Victoria Yaneva,Matthias von Davier,2023-06-05 Advancing Natural Language Processing in Educational Assessment examines the use of natural language technology in educational testing, measurement, and assessment. Recent developments in natural language processing (NLP) have enabled large-scale educational applications, though scholars and professionals may lack a shared understanding of the strengths and limitations of NLP in assessment as well as the challenges that testing organizations face in implementation. This first-of-its-kind book provides evidence-based practices for the use of NLP-based approaches to automated text and speech scoring, language proficiency assessment, technology-assisted item generation, gamification, learner feedback, and beyond. Spanning historical context, validity and fairness issues, emerging technologies, and implications for feedback and personalization, these chapters represent the most robust treatment yet about NLP for education measurement researchers, psychometricians, testing professionals, and policymakers. The Open Access version of this book, available at www.taylorfrancis.com, has been made available under a Creative Commons Attribution-NonCommercial-No Derivatives 4.0 license.

Analysis of Images, Social Networks and Texts Evgeny Burnaev,Dmitry I. Ignatov,Sergei Ivanov,Michael Khachay,Olessia Koltsova,Andrei Kutuzov,Sergei O. Kuznetsov,Natalia Loukachevitch,Amedeo Napoli,Alexander Panchenko,Panos M. Pardalos,Jari Saramäki,Andrey V. Savchenko,Evgenii Tsymbalov,Elena Tutubalina,2022-11-01 This book constitutes revised selected papers from the thoroughly refereed proceedings of the 10th International Conference on Analysis of Images, Social Networks and Texts, AIST 2021, held in Tbilisi, Georgia, during December 16–18, 2021. The 20 full papers and 5 short papers included in this book were carefully reviewed and selected from 118 submissions. They were organized in topical sections as follows: Invited papers; natural language processing; computer vision; data analysis and machine learning; social network analysis; and theoretical machine learning and optimization.

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