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Environmental Assessment Sourcebook: Policies, procedures, and cross-sectoral issues Mar 06 2020 World Bank Technical Paper No. 139. Also available: Volume 2 (ISBN 0-8213-1844-6) Stock No. 11844; Volume 3 (ISBN 0-8213-1845-4) Stock No. 11845. Provides state-of-the-art guidance and information on the procedural requirements and practical aspects of environmental assessment in various sector- and location-specific contexts. Three volumes also available in Arabic: Volume 1 (ISBN 0-8213-3523-5) Stock No. 13523; Volume 2 (ISBN 0-8213-3617-7) Stock No. 13617; Volume 3 (ISBN 0-8213-3618-5) Stock No. 13618.

Composing Software Aug 30 2019 All software design is composition:

the act of breaking complex problems down into smaller problems and composing those solutions. Most developers have a limited understanding of compositional techniques. It's time for that to change.In "Composing Software", Eric Elliott shares the fundamentals of composition, including both function composition and object composition, and explores them in the context of JavaScript. The book covers the foundations of both functional programming and object oriented programming to help the reader better understand how to build and structure complex applications using simple building blocks.You'll learn: Functional programmingObject compositionHow to work with composite data structuresClosuresHigher order functionsFunctors (e.g., array.map)Monads (e.g., promises)TransducersLensesAll of this in the context of JavaScript, the most used programming language in the world. But the learning doesn't stop at JavaScript. You'll be able to apply these lessons to any language. This book is about the timeless principles of software composition and its lessons will outlast the hot languages and frameworks of today. Unlike most programming books, this one may still be relevant 20 years from now.This book began life as a popular blog post series that attracted hundreds of thousands of readers and influenced the way software is built at many high growth tech startups and fortune 500 companies

Using Blood Tests to Establish Paternity Apr 18 2021

Telematics and Computing May 20 2021 This book constitutes the thoroughly refereed proceedings of the 9th International Congress on Telematics and Computing, WITCOM 2020, held in Puerto Vallarta, Mexico, in November 2020. Due to the COVID-19 pandemic the conference was held online. The 28 full papers and 3 short papers in this volume were carefully reviewed and selected from 79 submissions. The papers are focused on the topics of deep and machine learning, cybersecurity, wireless networks, computer vision, communications, and education applied to different sceneries of study and COVID-19.

A Malayalam and English Dictionary: The vowels Jun 01 2022

Essential Vocabulary: Supermarket Words Apr 30 2022

Metric Geometry of Locally Compact Groups Aug 23 2021 The main aim of this book is the study of locally compact groups from a geometric perspective, with an emphasis on appropriate metrics that can be defined on them. The approach has been successful for finitely generated groups and can be favorably extended to locally compact groups. Parts of the book address the coarse geometry of metric spaces, where ``coarse'' refers to that part of geometry concerning properties that can be formulated in terms of large distances only. This point of view is instrumental in studying locally compact groups. Basic results in the subject are exposed with complete proofs; others are stated with appropriate references. Most importantly, the development of the theory is illustrated by numerous examples, including matrix groups with entries in the the field of real or complex numbers, or other locally compact fields such as p-adic fields, isometry groups of various metric spaces, and last but not least, discrete groups themselves. The book is aimed at graduate students, advanced undergraduate students, and mathematicians seeking some introduction to coarse geometry and locally compact groups.

Transformers for Natural Language Processing Feb 26 2022 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.

Exploring GPT-3 Mar 30 2022 Get started with GPT-3 and the OpenAI API for natural language processing using JavaScript and Python Key Features: Understand the power of potential GPT-3 language models and the risks involved Explore core GPT-3 use cases such as text generation, classification, and semantic search using engaging examples Plan and prepare a GPT-3 application for the OpenAI review process required for publishing a live application Book Description: Generative Pre-trained Transformer 3 (GPT-3) is a highly advanced language model from OpenAI that can generate written text that is virtually indistinguishable from text written by humans. Whether you have a technical or non-technical background, this book will help you understand and start working with GPT-3 and the OpenAI API. If you want to get hands-on with leveraging artificial intelligence for natural language processing (NLP) tasks, this easy-to-follow book will help you get started. Beginning with a high-level introduction to NLP and GPT-3, the book takes you through practical examples that show how to leverage the OpenAI API and GPT-3 for text generation, classification, and semantic search. You'll explore the capabilities of the OpenAI API and GPT-3 and find out which NLP use cases GPT-3 is best suited for. You'll also learn how to use the API and optimize requests for the best possible results. With examples focusing on the OpenAI Playground and easy-to-follow JavaScript and Python code samples, the book illustrates the possible applications of GPT-3 in production. By the end of this book, you'll understand the best use cases for GPT-3 and how to integrate the OpenAI API in your applications for a wide array of NLP tasks. What You Will Learn: Understand what GPT-3 is and how it can be used for various NLP tasks Get a high-level introduction to GPT-3 and the OpenAI API Implement JavaScript and Python code examples that call the OpenAI API Structure GPT-3 prompts and options to get the best possible results Select the right GPT-3 engine or model to optimize for speed and cost-efficiency Find out which use cases would not be suitable for GPT-3 Create a GPT-3-powered knowledge base application that follows OpenAI guidelines Who this book is for: Exploring GPT-3 is for anyone interested in natural language processing or learning GPT-3 with or without a technical background. Developers, product managers, entrepreneurs, and hobbyists looking to get to grips with NLP, AI, and GPT-3 will find this book useful. Basic computer skills are all you need to get the most out of this book.

What Makes Us Human Sep 04 2022 A groundbreaking endeavor that explores human spirituality using the evolving technology of artificial intelligence Why are we here? What does it mean to love? How do we

overcome suffering? Why do we feel so alone? Is happiness truly possible? For thousands of years, humanity has turned to the same sacred texts to explore these universal questions--from the Bible and the Tao Te Ching, to the poetry of Rumi and Sappho, to modern-day mystics. What if you could take all of the wisdom contained within these collective pages and, using the world's most advanced artificial intelligence, receive the answers? Thanks to OpenAI, a nonprofit research lab cofounded by Elon Musk and other tech luminaries, this is now possible. OpenAI's mission is to ensure that artificial intelligence serves the betterment of humanity--and What Makes Us Human? offers an innovative exploration of AI's potential in this realm. To create this first-of-its-kind book, international bestselling poet Iain S. Thomas and prodigious researcher and innovator Jasmine Wang collaborated with OpenAI's GPT-3, an advanced artificial intelligence. Wang and Thomas prompted GPT-3 with thousands of humanity's greatest texts, and then asked GPT-3 our most pressing questions. Contained in this book are the conversations and exchanges that followed. A bold, daring experiment, What Makes Us Human? is a contemporary exploration of spirituality that will inspire a new understanding of what makes us humans, humans.

Geometry of the Quintic Jul 22 2021 This book helps students at the advanced undergraduate and beginning graduate levels to develop connections between the algebra, geometry, and analysis that they know, and to better appreciate the totality of what they have learned. The text demonstrates the use of general concepts by applying theorems from various areas in the context of one problem - solving the quintic. The problem is approached from two directions: the first is Felix Klein's nineteenth-century approach, using the icosahedron. The second approach presents recent works of Peter Doyle and Curt McMullen, which update Klein's use of transcendental functions to a solution through pure iteration.

Transfer Learning for Natural Language Processing Feb 03 2020 Build custom NLP models in record time by adapting pre-trained machine learning models to solve specialized problems. Summary In Transfer Learning for Natural Language Processing you will learn: Fine tuning

pretrained models with new domain data Picking the right model to reduce resource usage Transfer learning for neural network architectures Generating text with generative pretrained transformers Cross-lingual transfer learning with BERT Foundations for exploring NLP academic literature Training deep learning NLP models from scratch is costly, time-consuming, and requires massive amounts of data. In Transfer Learning for Natural Language Processing, DARPA researcher Paul Azunre reveals cutting-edge transfer learning techniques that apply customizable pretrained models to your own NLP architectures. You'll learn how to use transfer learning to deliver state-of-the-art results for language comprehension, even when working with limited label data. Best of all, you'll save on training time and computational costs. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Build custom NLP models in record time, even with limited datasets! Transfer learning is a machine learning technique for adapting pretrained machine learning models to solve specialized problems. This powerful approach has revolutionized natural language processing, driving improvements in machine translation, business analytics, and natural language generation. About the book Transfer Learning for Natural Language Processing teaches you to create powerful NLP solutions quickly by building on existing pretrained models. This instantly useful book provides crystal-clear explanations of the concepts you need to grok transfer learning along with hands-on examples so you can practice your new skills immediately. As you go, you'll apply state-of-the-art transfer learning methods to create a spam email classifier, a fact checker, and more real-world applications. What's inside Fine tuning pretrained models with new domain data Picking the right model to reduce resource use Transfer learning for neural network architectures Generating text with pretrained transformers About the reader For machine learning engineers and data scientists with some experience in NLP. About the author Paul Azunre holds a PhD in Computer Science from MIT and has served as a Principal Investigator on several DARPA research programs. Table of Contents PART 1 INTRODUCTION AND OVERVIEW 1 What is

transfer learning? 2 Getting started with baselines: Data preprocessing 3 Getting started with baselines: Benchmarking and optimization PART 2 SHALLOW TRANSFER LEARNING AND DEEP TRANSFER LEARNING WITH RECURRENT NEURAL NETWORKS (RNNS) 4 Shallow transfer learning for NLP 5 Preprocessing data for recurrent neural network deep transfer learning experiments 6 Deep transfer learning for NLP with recurrent neural networks PART 3 DEEP TRANSFER LEARNING WITH TRANSFORMERS AND ADAPTATION STRATEGIES 7 Deep transfer learning for NLP with the transformer and GPT 8 Deep transfer learning for NLP with BERT and multilingual BERT 9 ULMFiT and knowledge distillation adaptation strategies 10 ALBERT, adapters, and multitask adaptation strategies 11 Conclusions

An Introductory Guide to EC Competition Law and Practice Sep 11 2020

Natural Language Processing in Action, Second Edition Jan 16 2021 Develop your NLP skills from scratch! This revised bestseller now includes coverage of the latest Python packages, Transformers, the HuggingFace packages, and chatbot frameworks. Natural Language Processing in Action has helped thousands of data scientists build machines that understand human language. In this new and revised edition, you'll discover state-of-the art NLP models like BERT and HuggingFace transformers, popular open-source frameworks for chatbots, and more. As you go, you'll create projects that can detect fake news, filter spam, and even answer your questions, all built with Python and its ecosystem of data tools. Natural Language Processing in Action, Second Edition is your guide to building software that can read and interpret human language. This new edition is updated to include the latest Python packages and comes with full coverage of cutting-edge models like BERT, GPT-J and HuggingFace transformers. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

Rebooting AI Jun 28 2019 Two leaders in the field offer a compelling analysis of the current state of the art and reveal the steps we must take to achieve a truly robust artificial intelligence. Despite the hype surrounding AI, creating an intelligence that rivals or exceeds human levels is far more complicated than we have been led to believe. Professors Gary Marcus and Ernest Davis have spent their careers at the forefront of AI research and have witnessed some of the greatest milestones in the field, but they argue that a computer beating a human in Jeopardy! does not signal that we are on the doorstep of fully autonomous cars or superintelligent machines. The achievements in the field thus far have occurred in closed systems with fixed sets of rules, and these approaches are too narrow to achieve genuine intelligence. The real world, in contrast, is wildly complex and open-ended. How can we bridge this gap? What will the consequences be when we do? Taking inspiration from the human mind, Marcus and Davis explain what we need to advance AI to the next level, and suggest that if we are wise along the way, we won't need to worry about a future of machine overlords. If we focus on endowing machines with common sense and deep understanding, rather than simply focusing on statistical analysis and gatherine ever larger collections of data, we will be able to create an AI we can trust—in our homes, our cars, and our doctors' offices. Rebooting AI provides a lucid, clear-eyed assessment of the current science and offers an inspiring vision of how a new generation of AI can make our lives better.

Zero to AI Oct 05 2022 Summary How can artificial intelligence transform your business? In Zero to AI, you'll explore a variety of practical AI applications you can use to improve customer experiences, optimize marketing, help you cut costs, and more. In this engaging guide written for business leaders and technology pros alike, authors and AI experts Nicolò Valigi and Gianluca Mauro use fascinating projects, hands-on activities, and real-world explanations to make it clear how your business can benefit from AI. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology There's no doubt that artificial intelligence has made some impressive headlines recently, from besting chess and Go grand masters to producing uncanny deep fakes that blur the lines of reality. But what can AI do for you? If you want to understand how AI will

impact your business before you invest your time and money, this book is for you. About the book Zero to AI uses clear examples and jargon-free explanations to show the practical benefits of AI. Each chapter explores a real-world case study demonstrating how companies like Google and Netflix use AI to shape their industries. You begin at the beginning, with a primer on core AI concepts and realistic business outcomes. To help you prepare for the transition, the book breaks down a successful AI implementation, including advice on hiring the right team and making decisions about resources, risks, and costs. What's inside Identifying where AI can help your organization Designing an AI strategy Evaluating project scope and business impact Using AI to boost conversion rates, curate content, and analyze feedback Understanding how modern AI works and what it can/can't do About the reader For anyone who wants to gain an understanding of practical artificial intelligence and learn how to design and develop projects with high business impact. About the author Gianluca Mauro and Nicolò Valigi are the cofounders of AI Academy, a company specializing in AI trainings and consulting. Table of Contents: 1. An introduction to artificial intelligence PART 1 - UNDERSTANDING AI 2. Artificial intelligence for core business data 3. AI for sales and marketing 4. AI for media 5. AI for natural language 6. AI for content curation and community building PART 2 - BUILDING AI 7. Ready—finding AI opportunities 8. Set—preparing data, technology, and people 9. Go—AI implementation strategy 10. What lies ahead Transformers for Natural Language Processing Jul 02 2022 Learn how to use and implement transformers with Hugging Face and OpenAI (and others) by reading, running examples, investigating issues, asking the author questions, and interacting with our AI/ML community Key FeaturesPretrain a BERT-based model from scratch using Hugging FaceFine-tune powerful transformer models, including OpenAI's GPT-3, to learn the logic of your dataPerform root cause analysis on hard NLP problemsBook Description Transformers are...well...transforming the world of AI. There are many platforms and models out there, but which ones best suit your needs? Transformers for Natural Language Processing, 2nd Edition, guides you through the world of transformers, highlighting the strengths of different models and platforms, while teaching you the problem-solving skills you need to tackle model weaknesses. You'll use Hugging Face to pretrain a RoBERTa model from scratch, from building the dataset to defining the data collator to training the model. If you're looking to fine-tune a pretrained model, including GPT-3, then Transformers for Natural Language Processing, 2nd Edition, shows you how with step-by-step guides. The book investigates machine translations, speech-to-text, text-to-speech, question-answering, and many more NLP tasks. It provides techniques to solve hard language problems and may even help with fake news anxiety (read chapter 13 for more details). You'll see how cutting-edge platforms, such as OpenAI, have taken transformers beyond language into computer vision tasks and code creation using Codex. By the end of this book, you'll know how transformers work and how to implement them and resolve issues like an AI detective! What you will learnFind out how ViT and CLIP label images (including blurry ones!) and create images from a sentence using DALL-EDiscover new techniques to investigate complex language problemsCompare and contrast the results of GPT-3 against T5, GPT-2, and BERT-based transformersCarry out sentiment analysis, text summarization, casual speech analysis, machine translations, and more using TensorFlow, PyTorch, and GPT-3Measure the productivity of key transformers to define their scope, potential, and limits in productionWho this book is for If you want to learn about and apply transformers to your natural language (and image) data, this book is for you. You'll need a good understanding of Python and deep learning and a basic understanding of NLP to benefit most from this book. Many platforms covered in this book provide interactive user interfaces, which allow readers with a general interest in NLP and AI to follow several chapters. And, don't worry if you get stuck or have questions; this book gives you direct access to our AI/ML community and author, Denis Rothman. So, he'll be there to guide you on your transformers journey! **Soft Tales and Hard Asses** Jan 04 2020 Promoted to a new sales job, an Irishman takes off on a motorcycle trip to sort and file his thoughts when a chance encounter with a hard-bitten American provides him the

opportunity to gain a new perspective and, most importantly, acquire a new sales toolbox. A serious business book written as a narrative, Paul Lanigan delivers a tutorial on the importance of business storytelling and the impact it can have on your career. Sebastian was recently promoted to sales in his company, and while he enjoys the challenge, he is also stuck. He's playing with the big boys now, and in a competitive shootout with some serious big guns, he is poorly armed. The techniques that worked in his old job don't work here, and if he's going to stay alive, he better figure out something quick. So to clear his mind and get himself together, he climbs on his Harley and hits the open road, never knowing the answer to his dilemma is just around the next corner. Jack is a resolute American visiting Ireland. But what Jack has to offer Sebastian is something that is part of the Irish soul: the art of storytelling. Their chance encounter gives Sebastian a new outlook, a new confidence, and most importantly, a new sales tool. Taking baby steps into his newfound skill, he soon discovers the power of storytelling and realizes that if there were ever a time to test just how far it can take him, that time is now. The perfect companion for salespeople and business owners, Lanigan's debut captures his love of storytelling as it imparts the wisdom this skill has brought him over many years of success both in sales and in training. Written as a story itself, it eschews dry, worn out, overly academic rhetoric and uses the very concept he is teaching to demonstrate its effectiveness. A must-have for anyone involved in business, Soft Tales and Hard Asses will change the way you look at your job as it gives you the tools you need to not only excel but inspire and truly enjoy your process.

Symmetries and Their Role in Rationally Extended Real and Complex Potentials Oct 13 2020 This book is divided into seven chapters. In the first chapter, we discuss the development of supersymmetry (SUSY) in quantum mechanics, PT symmetry and construction of exactly solvable real as well as complex systems in detail. The basics about SUSY in quantum mechanics, the PT symmetry in non-hermitan quantum systems, the newly discovered exceptional orthogonal polynomials (EOPs) and the important methodologies, which have been used to obtain the important results in the other chapter of the book are described in the second chapter. Some important properties of SUSY and PT symmetry are also discussed in the same chapter. In chapter 3, we study the different rationally extended SIPs associated with Xm EOPs using Co-ordinate transformation approach. These are rationally extended radial oscillator, rationally extended trigonometric Scarf (also known as Scarf-I) potential, rationally extended generalized Poschl-Teller (GPT) and extended Poschl-Teller-II potentials. The bound state solutions of all these real extended potentials are also obtained in terms of exceptional Laguerre (in the case of extended radial oscillator potential) and exceptional Jacobi (in the case of extended Scarf-I and GPT potentials) orthogonal polynomials. A well known complex and PT symmetric rationally extended potential, the extended Scarf-II potential is also considered and solutions of this potential are also obtained. The scattering state solutions for some of the these extended potentials are also obtained in Chapter 4. In chapter 5 and 6, we construct some of these potentials using group theoretic method and obtain their bound as well as scattering state solutions.

Reconstruction of Small Inhomogeneities from Boundary Measurements Aug 11 2020 This is the first book to provide a systematic exposition of promising techniques for the reconstruction of small inhomogeneities from boundary measurements. In particular, theoretical results and numerical procedures for the inverse problems for the conductivity equation, the Lamé system, as well as the Helmholtz equation are discussed in a readable and informative manner. The general approach developed in this book is based on layer potential techniques and modern asymptotic analysis of partial differential equations. The book is particularly suitable for graduate students in mathematics.

Permitted Laughter Dec 15 2020

Toxicology Research Projects Directory Jan 28 2022

How Algorithms Create and Prevent Fake News Jun 08 2020 From deepfakes to GPT-3, deep learning is now powering a new assault on our ability to tell what's real and what's not, bringing a whole new algorithmic side to fake news. On the other hand, remarkable methods

are being developed to help automate fact-checking and the detection of fake news and doctored media. Success in the modern business world requires you to understand these algorithmic currents, and to recognize the strengths, limits, and impacts of deep learning---especially when it comes to discerning the truth and differentiating fact from fiction. This book tells the stories of this algorithmic battle for the truth and how it impacts individuals and society at large. In doing so, it weaves together the human stories and what's at stake here, a simplified technical background on how these algorithms work, and an accessible survey of the research literature exploring these various topics. How Algorithms Create and Prevent Fake News is an accessible, broad account of the various ways that data-driven algorithms have been distorting reality and rendering the truth harder to grasp. From news aggregators to Google searches to YouTube recommendations to Facebook news feeds, the way we obtain information today is filtered through the lens of tech giant algorithms. The way data is collected, labelled, and stored has a big impact on the machine learning algorithms that are trained on it, and this is a main source of algorithmic bias – which gets amplified in harmful data feedback loops. Don't be afraid: with this book you'll see the remedies and technical solutions that are being applied to oppose these harmful trends. There is hope. What You Will Learn The ways that data labeling and storage impact machine learning and how feedback loops can occur The history and inner-workings of YouTube's recommendation algorithm The state-of-the-art capabilities of AI-powered text generation (GPT-3) and video synthesis/doctoring (deepfakes) and how these technologies have been used so far The algorithmic tools available to help with automated fact-checking and truth-detection Who This Book is For People who don't have a technical background (in data, computers, etc.) but who would like to learn how algorithms impact society; business leaders who want to know the powers and perils of relying on artificial intelligence. A secondary audience is people with a technical background who want to explore the larger social and societal impact of their work.

Natural Language Processing Recipes Sep 23 2021 Focus on implementing end-to-end projects using Python and leverage state-of-the-art algorithms. This book teaches you to efficiently use a wide range of natural language processing (NLP) packages to: implement text classification, identify parts of speech, utilize topic modeling, text summarization, sentiment analysis, information retrieval, and many more applications of NLP. The book begins with text data collection, web scraping, and the different types of data sources. It explains how to clean and pre-process text data, and offers ways to analyze data with advanced algorithms. You then explore semantic and syntactic analysis of the text. Complex NLP solutions that involve text normalization are covered along with advanced pre-processing methods, POS tagging, parsing, text summarization, sentiment analysis, word2vec, seq2seq, and much more. The book presents the fundamentals necessary for applications of machine learning and deep learning in NLP. This second edition goes over advanced techniques to convert text to features such as Glove, Elmo, Bert, etc. It also includes an understanding of how transformers work, taking sentence BERT and GPT as examples. The final chapters explain advanced industrial applications of NLP with solution implementation and leveraging the power of deep learning techniques for NLP problems. It also employs state-of-the-art advanced RNNs, such as long short-term memory, to solve complex text generation tasks. After reading this book, you will have a clear understanding of the challenges faced by different industries and you will have worked on multiple examples of implementing NLP in the real world. What You Will Learn Know the core concepts of implementing NLP and various approaches to natural language processing (NLP), including NLP using Python libraries such as NLTK, textblob, SpaCy, Standford CoreNLP, and more Implement text pre-processing and feature engineering in NLP, including advanced methods of feature engineering Understand and implement the concepts of information retrieval, text summarization, sentiment analysis, text classification, and other advanced NLP techniques leveraging machine learning and deep learning Who This Book Is For Data scientists who want to refresh and learn various concepts of natural language processing (NLP) through coding exercises

Regulating AI Dec 27 2021 Until somewhat recently, AI was mostly an academic pursuit that always seemed far away from being released outside of academia. Today, however, AI is touching almost every aspect of human life. As such, there are several emerging legal and policy questions that society will need to reckon with. Although we are faced with new challenges, we have many opportunities to utilize true-and-tested frameworks and legal infrastructure that has been centuries in the making. This book tries to bring together two disparate fields, law and technology, and give the reader and understanding of their convergence and divergence. We start to answer many of these questions, or at least open the discussion that acknowledges its complexity. This is an exploration of those questions and where possible we try to go over information that might be helpful in appreciating the depth of those questions. As technology and law are two large subjects that span a wide range, we do our best to narrow the scope of the chapters as best we can.This book should not be taken as "original research" in that we hypothesize how the legal system should change or what the answers to these questions are. We instead look at the underlying logic that is provided within current legal frameworks to see how they can be adapted to fit current AI and future generations of much more powerful AI. Just as this is an emerging field, we are emerging researchers interested in starting to put pen to paper on the kind of questions we will spend our lifetimes pursuing.In the last chapter we ask AI to make some forward looking projections about how it sees AI and law intersecting in the future. In summary, this book is not intended to convey original research or ideas about how AI and the law should interact in the future. It is not formal, academic research, but rather thoughts, ideas, and frameworks that two students wanted to compile based on classwork across Stanford and externally.

Foundation Models for Natural Language Processing Jul 10 2020 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.

AI (Artificial Intelligence)'s Heated Debate Nov 13 2020 The invention of electricity, the invention of automobiles, and the invention of the Internet are certain to be the singularity of upgrading the next era. What is next after a smartphone? SNS, IOT, big data, Cloud, VR, AR, Blockchain etc What do writings and books have to say in a world of tremendous speed? In an era when GPT-3, an artificial intelligence called AI and the second AlphaGo, writes better works than humans, it is possible to shed new light on life from a new angle by utilizing materials in the IT field. Combining the writer's deep meditation with the reader's added meditation will give you a quiet answer to past life problems. Is this a poem? Is it a very short novel? Is it a very essays? It is beyond

dispute. It is easy for men and women of all ages to understand, so you can read it lightly.

The Effects of Two Types of Strategic Training on Foreign Language Reading Comprehension Nov 01 2019

Artificial General Intelligence Apr 06 2020 What Is Artificial General Intelligence The capacity of an intelligent agent to grasp or learn any intellectual work that can be accomplished by a human being is the definition of artificial general intelligence, or AGI.This is a key objective of certain artificial intelligence research, as well as a subject that is often discussed in science fiction and studies of the future. AGI is also known as strong AI, complete AI, or general intelligent action; however, some academic sources reserve the term "strong AI" for computer systems that experience awareness or consciousness. Other names for AGI include general intelligent action and full AI. How You Will Benefit (I) Insights, and validations about the following topics: Chapter 1: Artificial general intelligence Chapter 2: Artificial intelligence Chapter 3: Chinese room Chapter 4: Hugo de Garis Chapter 5: Technological singularity Chapter 6: The Age of Spiritual Machines Chapter 7: Mind uploading Chapter 8: Symbolic artificial intelligence Chapter 9: Neats and scruffies Chapter 10: Artificial brain Chapter 11: Physical symbol system Chapter 12: History of artificial intelligence Chapter 13: Philosophy of artificial intelligence Chapter 14: AI winter Chapter 15: Outline of artificial intelligence Chapter 16: Hubert Dreyfus's views on artificial intelligence Chapter 17: Timeline of artificial intelligence Chapter 18: How to Create a Mind Chapter 19: Conference on Artificial General Intelligence Chapter 20: Hypothetical technology Chapter 21: GPT-2 (II) Answering the public top questions about artificial general intelligence. (III) Real world examples for the usage of artificial general intelligence in many fields. (IV) 17 appendices to explain, briefly, 266 emerging technologies in each industry to have 360-degree full understanding of artificial general intelligence' technologies. Who This Book Is For Professionals, undergraduate and graduate students, enthusiasts, hobbyists, and those who want to go beyond basic knowledge or information for any kind of artificial general intelligence.

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Progress in Artificial Intelligence Nov 06 2022 This book constitutes the refereed proceedings of the 20th EPIA Conference on Artificial Intelligence, EPIA 2021, held virtually in September 2021. The 62 full papers and 6 short papers presented were carefully reviewed and selected from a total of 108 submissions. The papers are organized in the following topical sections: artificial intelligence and IoT in agriculture; artificial intelligence and law; artificial intelligence in medicine; artificial

intelligence in power and energy systems; artificial intelligence in transportation systems; artificial life and evolutionary algorithms; ambient intelligence and affective environments; general AI; intelligent robotics; knowledge discovery and business intelligence; multi-agent systems: theory and applications; and text mining and applications.

Scalable Uncertainty Management Jun 20 2021 This book constitutes the refereed proceedings of the First International Conference on Scalable Uncertainty Management, SUM 2007, held in Washington, DC, USA, in October 2007. The 20 revised full papers presented were carefully reviewed and selected from numerous submissions for inclusion in the book. The papers address artificial intelligence researchers, database researchers and practitioners.

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world, job-role-specific skills—this Training Guide focuses on deploying and managing core infrastructure services in Windows Server 2012. Build hands-on expertise through a series of lessons, exercises, and suggested practices—and help maximize your performance on the job. This Microsoft Training Guide: Provides in-depth, hands-on training you take at your own pace Focuses on job-role-specific expertise for deploying and managing Windows Server 2012 core services Creates a foundation of skills which, along with on-the-job experience, can be measured by Microsoft Certification exams such as 70-410 Coverage includes: Deploying Servers and Domain Controllers Remote Management Administering Active Directory Network Administration Using Group Policy Provisioning and Managing Storage Deploying Hyper-V Hosts Deploying and Managing Virtualized Workloads Deploying File Servers Managing Print Services