

Comparing OpenAI and ChatGPT



OpenAI



ChatGPT

Differences in purpose and user interfaces

OpenAI is a research organization whose primary goal is to develop AI, providing tools for diverse applications.

ChatGPT is developed by OpenAI. Positioned as a chatbot, ChatGPT focuses on delivering lifelike conversational experiences.

Model training methods

OpenAI uses various machine learning methods. The models are trained with both labeled and unlabeled data.

GPT is pre-trained using vast amounts of unlabeled data to develop an intrinsic understanding of text.

Use cases and target audiences

OpenAI caters to developers, researchers, businesses, and organizations with diverse goals.

ChatGPT serves individuals seeking personalized virtual assistance or engaging in conversations with AI.

Cost and availability

OpenAI provides limited free access through its Playground and API platforms. Commercial use requires a subscription fee.

ChatGPT is accessible to anyone online. Offers paid versions: ChatGPT Plus and ChatGPT Enterprise.

Success rate and accuracy

OpenAI has demonstrated impressive performance on various benchmarks.

While acknowledging potential flaws or inconsistencies, ChatGPT remains a popular choice for interactive AI.



Openai Compare

**Kazumi Nakamatsu,Roumiana
Kountcheva,Srikanta Patnaik**

Openai Compare:

Open Ai And Microsoft Stargate StoryBuddiesPlay,2024-04-07 Dive into the world of Artificial General Intelligence AGI with From Research Labs to Reality This ebook explores the cutting edge research of OpenAI and Microsoft Stargate unraveling their unique approaches to achieving human level AI Compare their methodologies delve into the ethical considerations and explore the potential impact of AGI on our future Is an AGI revolution on the horizon Join us on this thought provoking journey to uncover the secrets of artificial intelligence

Java for Programmers Paul Deitel,Harvey M. Deitel,2025-05-21 The professional programmer s Deitel guide to Java with integrated generative AI Written for programmers with a background in another high level language in Java for Programmers with Generative AI Fifth Edition you ll learn modern Java development hands on using the latest Java idioms and features and genAIs In the context of 200 real world code examples you ll quickly master Java fundamentals then move on to arrays strings regular expressions JSON CSV processing with the Jackson library private and public key cryptography classes inheritance polymorphism interfaces dependency injection exceptions generic collections custom generics functional programming with lambdas and streams JavaFX GUI graphics and multimedia platform threads virtual threads structured concurrency scoped values building API based Java genAI apps database with JDBC and SQLite the Java Platform Module System and JShell for Python like interactivity Features GenAI Prompt Engineering API Calls 600 GenAI Exercises ChatGPT Gemini Claude Perplexity Multimodal Text Code Images Audio Speech to Text Text to Speech Video Generics Collections Classes Methods Functional Programming Lambdas Streams JavaFX GUI Graphics Multimedia Concurrency Parallel Streams Virtual Threads Structured Concurrency Scoped Values Concurrent Collections Multi Core Database JDBC SQL SQLite Java Platform Module System JPMS Objects Natural Java API String BigInteger BigDecimal Date Time Cryptography ArrayList Regex JSON CSV Web Services JShell for Python Like Interactivity Want to stay in touch with the Deitels Contact the authors at deitel@deitel.com Join the Deitel social media communities deitel.com [linkedin](https://www.linkedin.com/company/deitel) [facebook.com](https://www.facebook.com/deitel) [DeitelFan](https://www.instagram.com/DeitelFan) [x.com](https://www.x.com/deitel) [youtube.com](https://www.youtube.com/DeitelTV) [DeitelTV](https://www.mastodon.social/deitel) [mastodon](https://www.mastodon.social/deitel) social [deitel](https://deitel.com) For source code and updates visit deitel.com [javafp5](https://www.javafp5.com) Reviewer Comments The future of Java programming is here and this new edition of Deitel is leading the charge By embracing genAI head on the authors are potentially revolutionizing programming education Through its integrative approach to the use and study of genAI this book is positioned to be the leading book in modern Java and its applications Indeed I expect that it should be widely adopted by instructors who want to ingrain in their students an appreciation for the critical role that Java will play in data science machine learning artificial intelligence and cybersecurity The book s innovative and forward thinking use of genAI facilitates reader engagement and inspires readers to think critically about the benefits and limitations of AI as a programming aid Chapter 19 could become everyone s favorite new Java book chapter the generative AI API based code examples are interesting and fun All audiences of this book should read the Preface there s so much to get excited about It

demonstrates with refreshing transparency and honesty how much love and care went into the reinvention of an already outstanding Java book by bringing it into a new frontier of what it means to be a programmer in today's world. Bravo! Your Preface statement GenAI has created an ultra high level programming capability that will leverage your Java learning experience and ability to produce robust top quality Java software quickly conveniently and economically is a great conclusion to the Preface intro really helps justify the use of genAI. Brian Canada, Professor of Computational Science, University of South Carolina Beaufort. After reading your whole book it was fun to read the Preface that wraps everything up at a high level. You have done some amazing work here and I'm glad to have been a small part of it as a reviewer. I especially appreciate how difficult it must have been to make sure everything was as up to date as possible with the speed at which things change in this field and the deftness with which you incorporated all the focus on GenAI and data science that's in this book. Emily Navarro, Ph.D., Continuing Lecturer, Department of Informatics, University of California, Irvine. The generative AI exercises are awesome and reflect the way modern developers work. They are fun and let the reader explore and learn about AI by using AI how meta. This allows readers to expand their knowledge and get a feel for the AI's code related capabilities. Jeanne Boyarsky, CodeRanch Java Champion. Register your book for convenient access to downloads, updates, and corrections as they become available. See inside book for details. Note: eBooks are 4 color and print books are black and white.

Open AI and Computational Intelligence for Society 5.0 Pandey, Rajiv, Srivastava, Nidhi, Prasad, Rajesh, Prasad, Jayashree, Garcia, Manuel B., 2024-11-29. As technology rapidly advances the complexity of societal challenges grows necessitating intelligent solutions that can adapt and evolve. However, developing such solutions requires a deep understanding of computational intelligence (CI) and its application in addressing real-world problems. Moreover, ethical considerations surrounding AI such as bias and accountability are crucial to ensure responsible development and deployment of intelligent systems. *Open AI and Computational Intelligence for Society 5.0* offers a comprehensive exploration of CI providing insights into intelligent systems theory, design, and application. This book is a practical guide for scientists, engineers, and researchers seeking to develop thoughtful solutions for complex societal issues. Integrating disruptive technologies and frameworks illuminates the path toward creating intelligent machines collaborating with humans to enhance problem solving and improve quality of life.

Computer Vision and Image Processing Jagadeesh Kakarla, R. Balasubramanian, Subrahmanyam Murala, Santosh Kumar Vipparthi, Deep Gupta, 2025-07-28. The Six volume proceedings set CCIS 2473 and 2478 constitutes the refereed proceedings of the 9th International Conference on Computer Vision and Image Processing (CVIP 2024) held in Chennai, India during December 19-21, 2024. The 178 full papers presented were carefully reviewed and selected from 647 submissions. The papers focus on various important and emerging topics in image processing, computer vision applications, deep learning, and machine learning techniques in the domain. Artificial Intelligence Research Aurna Gerber, Jacques Maritz, Anban W. Pillay, 2024-12-01. This book constitutes the refereed proceedings of the

5th Southern African Conference on Artificial Intelligence Research SACAIR 2024 held in Bloemfontein South Africa during December 26 2024 The 29 full papers presented in these proceedings were carefully reviewed and selected from 101 submissions The papers are organized in the following topical sections algorithmic and Data Driven AI socio technical and human centred AI Information Systems responsible and Ethical AI Philosophy Law and Humanities symbolic AI and Knowledge Representation and Reasoning *Machine Learning and Principles and Practice of Knowledge Discovery in Databases* Rosa Meo, Fabrizio Silvestri, 2025-01-01 The five volume set CCIS 2133 2137 constitutes the refereed proceedings of the workshops held in conjunction with the Joint European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2023 which took place in Turin Italy during September 18 22 2023 The 200 full papers presented in these proceedings were carefully reviewed and selected from 515 submissions The papers have been organized in the following tracks Part I Advances in Interpretable Machine Learning and Artificial Intelligence Joint Workshop and Tutorial BIAS 2023 3rd Workshop on Bias and Fairness in AI Biased Data in Conversational Agents Explainable Artificial Intelligence From Static to Dynamic ML Law and Society Part II RKDE 2023 1st International Tutorial and Workshop on Responsible Knowledge Discovery in Education SoGood 2023 8th Workshop on Data Science for Social Good Towards Hybrid Human Machine Learning and Decision Making HLDM Uncertainty meets explainability in machine learning Workshop Deep Learning and Multimedia Forensics Combating fake media and misinformation Part III XAI TS Explainable AI for Time Series Advances and Applications XKDD 2023 5th International Workshop on eXplainable Knowledge Discovery in Data Mining Deep Learning for Sustainable Precision Agriculture Knowledge Guided Machine Learning MACLEAN MACHINE Learning for Earth Observation MLG Mining and Learning with Graphs Neuro Explicit AI and Expert Informed ML for Engineering and Physical Sciences New Frontiers in Mining Complex Patterns Part IV PharML Machine Learning for Pharma and Healthcare Applications Simplification Compression Efficiency and Frugality for Artificial intelligence Workshop on Uplift Modeling and Causal Machine Learning for Operational Decision Making 6th Workshop on AI in Aging Rehabilitation and Intelligent Assisted Living ARIAL Adapting to Change Reliable Multimodal Learning Across Domains AI4M AI for Manufacturing Part V Challenges and Opportunities of Large Language Models in Real World Machine Learning Applications Deep learning meets Neuromorphic Hardware Discovery challenge ITEM IoT Edge and Mobile for Embedded Machine Learning LIMBO LearnIng and Mining for BLockchains Machine Learning for Cybersecurity MLCS 2023 MIDAS The 8th Workshop on MIning DATA for financial applicationS Workshop on Advancements in Federated Learning **Intelligent Computing** Kohei Arai, 2025-08-09 This book compiles a curated selection of insightful rigorously researched and state of the art papers presented at the Computing Conference 2025 hosted in London UK on June 19 20 2025 Drawing submissions from across the globe the conference received 473 papers each subjected to a stringent double blind peer review process Of these 169 papers were accepted for inclusion reflecting exceptional scholarship and innovation across disciplines such as IoT artificial intelligence

computing data science networking data security and privacy Researchers academics and industry leaders converged to share pioneering ideas transformative methodologies and practical solutions to real world challenges By bridging academic theory and industrial application the conference catalyzed opportunities for knowledge synthesis and interdisciplinary progress The diverse contributions within this proceedings not only address contemporary technological issues but also anticipate future trends offering frameworks for continued exploration We trust this collection will serve as an indispensable reference for researchers practitioners and policymakers navigating the evolving landscapes of computing and digital innovation As we reflect on the conference s outcomes we are confident that the insights and collaborations forged here will inspire sustained advancements in these critical fields May the ideas within these pages spark further inquiry drive technological evolution and contribute meaningfully to solving the challenges of our interconnected world

[Hugging Face in Action](#) Wei-Meng Lee, 2025-11-11 Everything you need to know about using the tools libraries and models at Hugging Face from transformers to RAG LangChain and Gradio Hugging Face in Action reveals how to get the absolute best out of everything Hugging Face from accessing state of the art models to building intuitive frontends for AI apps With Hugging Face in Action you ll learn Utilizing Hugging Face Transformers and Pipelines for NLP tasks Applying Hugging Face techniques for Computer Vision projects Manipulating Hugging Face Datasets for efficient data handling Training Machine Learning models with AutoTrain functionality Implementing AI agents for autonomous task execution Developing LLM based applications using LangChain and LlamaIndex Constructing LangChain applications visually with LangFlow Creating web based user interfaces using Gradio Building locally running LLM based applications with GPT4ALL Querying local data using Large Language Models Want a cutting edge transformer library Hugging Face s open source offering is best in class Need somewhere to host your models Hugging Face Spaces has you covered Do your users need an intuitive frontend for your AI app Hugging Face s Gradio library makes it easy to build UI using the Python skills you already have In Hugging Face in Action you ll learn how to take full advantage of all of Hugging Face s amazing features to quickly and reliably prototype and productionize AI applications About the technology Hugging Face is an incredible open source ecosystem for AI engineers and data scientists providing hundreds of pre trained models datasets tools and libraries It s also a central hub for collaborating on leading edge AI research Hugging Face is a massive platform and this book will help you take full advantage of all it has to offer About the book Hugging Face in Action teaches you how to build end to end AI systems using resources from the Hugging Face community In it you ll create multiple projects including an object detection model a RAG Q A application an LLM powered chatbot and more You ll appreciate the clear accessible explanations along with thoughtful introductions to key technologies like LangChain LlamaIndex and Gradio What s inside How to navigate the huge Hugging Face library of models and tools How to run LLMs locally using GPT4ALL How to create web based user interfaces using Gradio How to improve models using Hugging Face datasets About the reader For Python programmers familiar with NumPy

and Pandas No AI experience required About the author Wei Meng Lee is a technologist and founder of Developer Learning Solutions Table of Contents 1 Introducing Hugging Face 2 Getting started 3 Using Hugging Face transformers and pipelines for NLP tasks 4 Using Hugging Face for computer vision tasks 5 Exploring tokenizing and visualizing Hugging Face datasets 6 Fine tuning pretrained models and working with multimodal models 7 Creating LLM based applications using LangChain and LlamaIndex 8 Building LangChain applications visually using Langflow 9 Programming agents 10 Building a web based UI using Gradio 11 Building locally running LLM based applications using GPT4All 12 Using LLMs to query your local data 13 Bridging LLMs to the real world with the Model Context Protocol ICT for Intelligent Systems Jyoti Chaudri, Parikshit N. Mahalle, Thinagaran Perumal, Amit Joshi, 2025-10-29 This book gathers papers addressing state of the art research in all areas of information and communication technologies and their applications in intelligent computing cloud storage data mining and software analysis It presents the outcomes of the 9th International Conference on Information and Communication Technology for Intelligent Systems ICTIS 2025 held in Bangkok Thailand The book discusses the fundamentals of various data analysis techniques and algorithms making it a valuable resource for researchers and practitioners alike **Developing AI Applications With Large Language Models** Maria Johnsen, 2025-01-18 In my previous book Large Language Models LLMs I explained and discussed about the intricacies of Large Language Models LLMs giving readers a comprehensive understanding of these powerful technologies This book takes that knowledge a step further focusing on the practical side of developing AI applications using LLMs It is designed to be a hands on step by step guide to building AI solutions Over the years I've been fascinated by the many possibilities AI offers and I've come to realize that many people from developers to researchers want to build real world applications but often don't know where to start That's why I decided to write this book because I believe that with the right guidance anyone can harness the full potential of LLMs to create meaningful and impactful AI driven solutions My book covers a wide range of practical applications including in industries like healthcare film production music video and language translation I also explore how AI can empower researchers and innovators in countless fields By breaking down complex topics such as tokenization attention mechanisms and transformer architecture in an approachable way I want to help you understand these essential concepts and how to apply them to build your own AI applications Throughout this journey you'll learn not just how to set up your development environment and choose the right models but also how to use the most powerful tools available to create applications like chatbots virtual assistants and much more I've made sure to emphasize key aspects such as prompt engineering fine tuning pretrained models and adapting LLMs to industries such as healthcare and finance where they can make the most significant impact But this book isn't just about building great technology It's also about building responsible technology I've dedicated a section to the ethical challenges that come with working in AI such as bias and fairness and I offer strategies for developing scalable AI applications that are both effective and ethical The motivation behind writing this book is simple I want to

empower you to unlock the potential of LLMs in practical ways I've had the privilege of exploring and developing with AI over the years and I want to share that experience with you Whether you're a developer looking to expand your skills a researcher trying to integrate AI into your work or an entrepreneur hoping to revolutionize an industry this book is meant to be your guide This book is for anyone eager to explore the practical development of AI applications using Large Language Models Whether you're just getting started with AI or looking to enhance your skills you'll find something here that speaks to you It's particularly suited for Developers who want to dive deeper into building AI applications from chatbots to complex AI systems Researchers who are looking to integrate LLMs into their projects for tasks like data analysis language translation or summarization Industry professionals in fields like healthcare finance and entertainment who want to leverage AI to innovate and enhance their business AI enthusiasts and students who are passionate about AI and want to build practical real world applications By the end of this book my hope is that you'll feel confident not only in your understanding of how LLMs work but also in your ability to apply them to create powerful responsible AI applications across many different domains

Programming Large Language Models with Azure Open AI Francesco Esposito, 2024-04-03 Use LLMs to build better business software applications Autonomously communicate with users and optimize business tasks with applications built to make the interaction between humans and computers smooth and natural Artificial Intelligence expert Francesco Esposito illustrates several scenarios for which a LLM is effective crafting sophisticated business solutions shortening the gap between humans and software equipped machines and building powerful reasoning engines Insight into prompting and conversational programming with specific techniques for patterns and frameworks unlock how natural language can also lead to a new advanced approach to coding Concrete end to end demonstrations featuring Python and ASP.NET Core showcase versatile patterns of interaction between existing processes APIs data and human input Artificial Intelligence expert Francesco Esposito helps you Understand the history of large language models and conversational programming Apply prompting as a new way of coding Learn core prompting techniques and fundamental use cases Engineer advanced prompts including connecting LLMs to data and function calling to build reasoning engines Use natural language in code to define workflows and orchestrate existing APIs Master external LLM frameworks Evaluate responsible AI security privacy and accuracy concerns Explore the AI regulatory landscape Build and implement a personal assistant Apply a retrieval augmented generation RAG pattern to formulate responses based on a knowledge base Construct a conversational user interface For IT Professionals and Consultants For software professionals architects lead developers programmers and Machine Learning enthusiasts For anyone else interested in natural language processing or real world applications of human like language in software

Deep Learning for Unmanned Systems Anis Koubaa, Ahmad Taher Azar, 2021-10-01 This book is used at the graduate or advanced undergraduate level and many others Manned and unmanned ground aerial and marine vehicles enable many promising and revolutionary civilian and military applications that will change our life in the

near future These applications include but are not limited to surveillance search and rescue environment monitoring infrastructure monitoring self driving cars contactless last mile delivery vehicles autonomous ships precision agriculture and transmission line inspection to name just a few These vehicles will benefit from advances of deep learning as a subfield of machine learning able to endow these vehicles with different capability such as perception situation awareness planning and intelligent control Deep learning models also have the ability to generate actionable insights into the complex structures of large data sets In recent years deep learning research has received an increasing amount of attention from researchers in academia government laboratories and industry These research activities have borne some fruit in tackling some of the challenging problems of manned and unmanned ground aerial and marine vehicles that are still open Moreover deep learning methods have been recently actively developed in other areas of machine learning including reinforcement training and transfer meta learning whereas standard deep learning methods such as recent neural network RNN and coevolutionary neural networks CNN The book is primarily meant for researchers from academia and industry who are working on in the research areas such as engineering control engineering robotics mechatronics biomedical engineering mechanical engineering and computer science The book chapters deal with the recent research problems in the areas of reinforcement learning based control of UAVs and deep learning for unmanned aerial systems UAS The book chapters present various techniques of deep learning for robotic applications The book chapters contain a good literature survey with a long list of references The book chapters are well written with a good exposition of the research problem methodology block diagrams and mathematical techniques The book chapters are lucidly illustrated with numerical examples and simulations The book chapters discuss details of applications and future research areas

AI for Everyday IT Chrissy LeMaire, Brandon Abshire, 2025-06-24 Automate and accelerate your everyday IT tasks with instant solutions What if you never had to write another after incident report piece of boilerplate code or a performance review from scratch ever again Use AI tools like ChatGPT Claude Gemini and Copilot right and you ll take back hours of your time and more AI for Everyday IT reveals how you can automate dozens of your daily IT tasks with generative AI In AI for Everyday IT you ll learn how to Write effective prompts for common IT tasks Optimize report generation document handling and workplace communication Resolve IT conflicts and crises Acquire new skills and upgrade your resume AI for help desk database administration and systems administration Incorporate AI into DevOps processes and create AI powered applications Simplify time consuming people management tasks In this hands on guide automation experts Chrissy LeMaire and Brandon Abshire show you how AI tools like ChatGPT have made their lives a million times easier and how they can do the same for you You ll find proven strategies for using AI to improve help desk support automate sysadmin and database tasks aid with DevOps engineering handle managing IT teams and dozens more time saving and quality improving hacks Foreword by Nitya Narasimhan About the technology Have you lost days sifting through logs to find a latency issue AI can do it in seconds Need to update your

documentation Mere moments for AI Are you writing scripts designing data recovery strategies and evaluating network designs AI can handle it all if you know how to use it About the book AI for Everyday IT shows you exactly how AI can transform support desk operations root cause analysis disaster recovery planning even writing professional emails when you re too furious to be nice This instantly useful guide has time saving techniques for all IT pros from devs and DBAs to technical writers and product managers Each relatable example is fully illustrated with the prompts and problem formulation strategies along with interesting insights and anecdotes from authors Chrissy Lemaire and Brandon Abshire What s inside Document handling and workplace communication Database administration and development DevOps engineering and AI powered apps People management and career planning About the reader Whether you re working in operations development management or security you ll love these productivity hacks for generative AI No previous AI experience required About the author Chrissy LeMaire is a dual Microsoft MVP and GitHub Star the creator of dbatools and author of the Manning book Learn dbatools in a Month of Lunches Brandon Abshire has spent over twenty years in IT including roles at a leading Fortune 500 semiconductor and telecommunications company and multiple top ranked US hospital systems

Document Analysis and Recognition - ICDAR 2023 Gernot A. Fink,Rajiv Jain,Koichi Kise,Richard Zanibbi,2023-08-18 This six volume set of LNCS 14187 14188 14189 14190 14191 and 14192 constitutes the refereed proceedings of the 17th International Conference on Document Analysis and Recognition ICDAR 2021 held in San Jos CA USA in August 2023 The 53 full papers were carefully reviewed and selected from 316 submissions and are presented with 101 poster presentations The papers are organized into the following topical sections Graphics Recognition Frontiers in Handwriting Recognition Document Analysis and Recognition

Deepseek Ai: The Combination of the Creative and Technical Part (Powerful Prompts to Profitable Results—unlock Ai’s Full Potential for Creativity and Innovation) Robin Whitfield,101-01-01 Unlock the power of artificial intelligence with deepseek ai for beginners This comprehensive guide introduces you to deepseek ai an advanced nlp model designed for text generation coding assistance research business productivity and more Whether you re a student writer or entrepreneur this book helps you maximize ai s potential with step by step tutorials best practices and real world applications Learn how to write compelling content translate languages generate summaries and integrate ai into your workflow seamlessly What s inside the book Learn deepseek ai s power master the use of deepseek ai to create content and automate tasks Discover how to make money easily with deepseek ai learn how to turn generative ai into a profitable venture Build passive income sources create income streams that will generate money for you long after you set them up Become a freelance superhero use deepseek ai to finish client projects in minutes instead of days Generate social media content in seconds automatically create and repurpose content for various platforms Write blogs scripts and courses effortlessly utilize deepseek ai for all your content needs You re looking to automate your daily tasks spark creativity or supercharge your business this book covers it all You ll learn how to use deepseek from a to z and by the end you ll have all

the knowledge you need to turn ai into a tool that works for you If you want to be an expert in one of the best ai tools out there this is your starting point Ready to dive in and make ai work for you Let s get started this book is your path to success

Prompt Engineering for Generative AI James Phoenix, Mike Taylor, 2024-05-16 Large language models LLMs and diffusion models such as ChatGPT and Stable Diffusion have unprecedented potential Because they have been trained on all the public text and images on the internet they can make useful contributions to a wide variety of tasks And with the barrier to entry greatly reduced today practically any developer can harness LLMs and diffusion models to tackle problems previously unsuitable for automation With this book you ll gain a solid foundation in generative AI including how to apply these models in practice When first integrating LLMs and diffusion models into their workflows most developers struggle to coax reliable enough results from them to use in automated systems Authors James Phoenix and Mike Taylor show you how a set of principles called prompt engineering can enable you to work effectively with AI Learn how to empower AI to work for you This book explains The structure of the interaction chain of your program s AI model and the fine grained steps in between How AI model requests arise from transforming the application problem into a document completion problem in the model training domain The influence of LLM and diffusion model architecture and how to best interact with it How these principles apply in practice in the domains of natural language processing text and image generation and code **Keras**

Reinforcement Learning Projects Giuseppe Ciaburro, 2018-09-29 A practical guide to mastering reinforcement learning algorithms using Keras Key Features Build projects across robotics gaming and finance fields putting reinforcement learning RL into action Get to grips with Keras and practice on real world unstructured datasets Uncover advanced deep learning algorithms such as Monte Carlo Markov Decision and Q learning Book Description Reinforcement learning has evolved a lot in the last couple of years and proven to be a successful technique in building smart and intelligent AI networks Keras Reinforcement Learning Projects installs human level performance into your applications using algorithms and techniques of reinforcement learning coupled with Keras a faster experimental library The book begins with getting you up and running with the concepts of reinforcement learning using Keras You ll learn how to simulate a random walk using Markov chains and select the best portfolio using dynamic programming DP and Python You ll also explore projects such as forecasting stock prices using Monte Carlo methods delivering vehicle routing application using Temporal Distance TD learning algorithms and balancing a Rotating Mechanical System using Markov decision processes Once you ve understood the basics you ll move on to Modeling of a Segway running a robot control system using deep reinforcement learning and building a handwritten digit recognition model in Python using an image dataset Finally you ll excel in playing the board game Go with the help of Q Learning and reinforcement learning algorithms By the end of this book you ll not only have developed hands on training on concepts algorithms and techniques of reinforcement learning but also be all set to explore the world of AI What you will learn Practice the Markov decision process in prediction and betting evaluations Implement Monte Carlo methods to forecast

environment behaviorsExplore TD learning algorithms to manage warehouse operationsConstruct a Deep Q Network using Python and Keras to control robot movementsApply reinforcement concepts to build a handwritten digit recognition model using an image datasetAddress a game theory problem using Q Learning and OpenAI GymWho this book is for Keras Reinforcement Learning Projects is for you if you are data scientist machine learning developer or AI engineer who wants to understand the fundamentals of reinforcement learning by developing practical projects Sound knowledge of machine learning and basic familiarity with Keras is useful to get the most out of this book

Artificial Intelligence for Supporting Human Cognition and Exploratory Learning in the Digital Age Pedro Isaias, Demetrios G. Sampson, Dirk Ifenthaler, 2024-08-08 The Cognition and Exploratory Learning in the Digital Age CELDA conference focuses on discussing and addressing the challenges pertaining to the evolution of the learning process the role of pedagogical approaches and the progress of technological innovation in the context of the digital age In each edition CELDA gathers researchers and practitioners in an effort to cover both technological and pedagogical issues in ground breaking studies Some of CELDA's main topics include assessment of exploratory learning approaches and technologies educational psychology learning paradigms in academia and the corporate sector student centered learning and lifelong learning The CELDA 2023 conference selected and published a selection of papers that focus on the use of Artificial Intelligence and Learning Analytics in the educational context

Hands-On Artificial Intelligence for IoT Amita Kapoor, 2019-01-31 Build smarter systems by combining artificial intelligence and the Internet of Things two of the most talked about topics today Key FeaturesLeverage the power of Python libraries such as TensorFlow and Keras to work with real time IoT dataProcess IoT data and predict outcomes in real time to build smart IoT modelsCover practical case studies on industrial IoT smart cities and home automationBook Description There are many applications that use data science and analytics to gain insights from terabytes of data These apps however do not address the challenge of continually discovering patterns for IoT data In Hands On Artificial Intelligence for IoT we cover various aspects of artificial intelligence AI and its implementation to make your IoT solutions smarter This book starts by covering the process of gathering and preprocessing IoT data gathered from distributed sources You will learn different AI techniques such as machine learning deep learning reinforcement learning and natural language processing to build smart IoT systems You will also leverage the power of AI to handle real time data coming from wearable devices As you progress through the book techniques for building models that work with different kinds of data generated and consumed by IoT devices such as time series images and audio will be covered Useful case studies on four major application areas of IoT solutions are a key focal point of this book In the concluding chapters you will leverage the power of widely used Python libraries TensorFlow and Keras to build different kinds of smart AI models By the end of this book you will be able to build smart AI powered IoT apps with confidence What you will learnApply different AI techniques including machine learning and deep learning using TensorFlow and KerasAccess and process data from various distributed

sourcesPerform supervised and unsupervised machine learning for IoT dataImplement distributed processing of IoT data over Apache Spark using the MLlib and H2O ai platformsForecast time series data using deep learning methodsImplementing AI from case studies in Personal IoT Industrial IoT and Smart CitiesGain unique insights from data obtained from wearable devices and smart devicesWho this book is for If you are a data science professional or a machine learning developer looking to build smart systems for IoT Hands On Artificial Intelligence for IoT is for you If you want to learn how popular artificial intelligence AI techniques can be used in the Internet of Things domain this book will also be of benefit A basic understanding of machine learning concepts will be required to get the best out of this book **Testing Software and Systems** Silvia Bonfanti,George Angelos Papadopoulos,2025-09-15 This book constitutes the refereed proceedings of the 37th IFIP WG 6.1 International Conference on Testing Software and Systems ICTSS 2025 held in Limassol Cyprus during September 17-19 2025 The 19 full papers and 4 short papers included in this book were carefully reviewed and selected from 38 submissions They were organized in topical sections as follows Foundations and Advanced Testing Techniques Intelligent and Automated Testing LLMs Agents and AI Driven Testing Testing in Complex and Security Critical Systems

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