



Whisper API with Flask and Docker



Openai Latest Tutorial

Yi-Tong Ma

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name Yi-Tong Ma.

Openai Latest Tutorial:

Digitales Lesen Susanne Düwell, Nicolas Pethes, 2025-11-15 In der Debatte über Digitalisierung sind Techniken und Praktiken des digitalen Lesens zu einem viel diskutierten Gegenstand geworden. Kulturkritischen Befürchtungen, dass mit dem Ende der Gutenberg Galaxis die Fähigkeit zu vertieftem Lesen (deep reading) und Reflektieren bedroht sei, stehen kulturwissenschaftliche Beschreibungen des pädagogischen, epistemologischen oder ästhetischen Potentials neuer Lekturpraktiken und der Affordanzen neuer Lesemedien gegenüber. Die Beiträge des Bandes analysieren aus literatur- und medienwissenschaftlicher Perspektive aktuelle Diskurse über digitales Lesen sowie literarische Reflexionen des Digitalen in fiktionalen Leseszenen der Gegenwartsliteratur.

Building LLMs for Production Louis-François Bouchard, Louie Peters, 2024-05-21 This is the most comprehensive textbook to date on building LLM applications. All essential topics in an AI Engineer's toolkit. Jerry Liu, Co-founder and CEO of LlamaIndex. THE BOOK WAS UPDATED ON OCTOBER 2024. With amazing feedback from industry leaders, this book is an end-to-end resource for anyone looking to enhance their skills or dive into the world of AI and develop their understanding of Generative AI and Large Language Models (LLMs). It explores various methods to adapt foundational LLMs to specific use cases with enhanced accuracy, reliability, and scalability. Written by over 10 people on our team at Towards AI and curated by experts from ActiveLoop, LlamaIndex, Mila, and more, it is a roadmap to the tech stack of the future. The book aims to guide developers through creating LLM products ready for production, leveraging the potential of AI across various industries. It is tailored for readers with an intermediate knowledge of Python. What's Inside this 470-page book: Updated October 2024. Hands-on Guide on LLMs, Prompting, Retrieval-Augmented Generation (RAG), Fine-tuning, Roadmap for Building Production-Ready Applications using LLMs, Fundamentals of LLM Theory, Simple to Advanced LLM Techniques, Frameworks, Code Projects with Real-World Applications, Colab Notebooks that you can run right away. Community access and our own AI Tutor. Table of Contents: Chapter I: Introduction to Large Language Models; Chapter II: LLM Architectures Landscape; Chapter III: LLMs in Practice; Chapter IV: Introduction to Prompting; Chapter V: Retrieval-Augmented Generation; Chapter VI: Introduction to LangChain; LlamaIndex; Chapter VII: Prompting with LangChain; Chapter VIII: Indexes, Retrievers, and Data Preparation; Chapter IX: Advanced RAG; Chapter X: Agents; Chapter XI: Fine-Tuning; Chapter XII: Deployment and Optimization. Whether you're looking to enhance your skills or dive into the world of AI for the first time as a programmer or software student, our book is for you. From the basics of LLMs to mastering fine-tuning and RAG for scalable, reliable AI applications, we guide you every step of the way.

Test Yourself On Build a Large Language Model (From Scratch), 2025-07-22 Learn how to create, train, and tweak large language models (LLMs) by building one from the ground up. Sebastian Raschka's bestselling book *Build a Large Language Model From Scratch* is the best way to learn how Large Language Models function. It uses Python and the PyTorch deep learning library. It's a unique way to learn this subject, which some believe is the only way to truly learn: you build a model yourself. Even with the clear explanations,

diagrams and code in the book learning a complex subject is still hard This Test Yourself guide intends to make it a little easier The structure mirrors the structure of Build a Large Language Model From Scratch focusing on key concepts from each chapter You can test yourself with multiple choice quizzes questions on code and key concepts and questions with longer answers that push you to think critically The answers to all questions are provided Depending on what you know at any point this Test Yourself guide can help you in different ways It will solidify your knowledge if used after reading a chapter But it will also benefit you if you digest it before reading By testing yourself on the main concepts and their relationships you are primed to navigate a chapter more easily and be ready for its messages We recommend using it before and after reading as well as later when you have started forgetting Repeated learning solidifies our knowledge and integrates it with related knowledge already in our long term memory What's inside Questions on code and key concepts Critical thinking exercises requiring longer answers Answers for all questions About the reader For readers of Build a Large Language Model From Scratch who want to enhance their learning with exercises and self assessment tools About the author Curated from Build a Large Language Model From Scratch

RAG-Driven Generative AI Denis Rothman, 2024-09-30 Minimize AI hallucinations and build accurate custom generative AI pipelines with RAG using embedded vector databases and integrated human feedback Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Implement RAG's traceable outputs linking each response to its source document to build reliable multimodal conversational agents Deliver accurate generative AI models in pipelines integrating RAG real time human feedback improvements and knowledge graphs Balance cost and performance between dynamic retrieval datasets and fine tuning static data Book Description RAG Driven Generative AI provides a roadmap for building effective LLM computer vision and generative AI systems that balance performance and costs This book offers a detailed exploration of RAG and how to design manage and control multimodal AI pipelines By connecting outputs to traceable source documents RAG improves output accuracy and contextual relevance offering a dynamic approach to managing large volumes of information This AI book shows you how to build a RAG framework providing practical knowledge on vector stores chunking indexing and ranking You'll discover techniques to optimize your project's performance and better understand your data including using adaptive RAG and human feedback to refine retrieval accuracy balancing RAG with fine tuning implementing dynamic RAG to enhance real time decision making and visualizing complex data with knowledge graphs You'll be exposed to a hands on blend of frameworks like LlamaIndex and Deep Lake vector databases such as Pinecone and Chroma and models from Hugging Face and OpenAI By the end of this book you will have acquired the skills to implement intelligent solutions keeping you competitive in fields from production to customer service across any project What you will learn Scale RAG pipelines to handle large datasets efficiently Employ techniques that minimize hallucinations and ensure accurate responses Implement indexing techniques to improve AI accuracy with traceable and transparent outputs Customize and scale RAG driven generative AI systems across domains Find

out how to use Deep Lake and Pinecone for efficient and fast data retrieval Control and build robust generative AI systems grounded in real world data Combine text and image data for richer more informative AI responses Who this book is for This book is ideal for data scientists AI engineers machine learning engineers and MLOps engineers If you are a solutions architect software developer product manager or project manager looking to enhance the decision making process of building RAG applications then you ll find this book useful

Supremacy Parmy Olson, 2024-09-10 WINNER OF THE THE FINANCIAL TIMES AND SCHRODERS 2024 BUSINESS BOOK OF THE YEAR AWARD In November of 2022 a webpage was posted online with a simple text box It was an AI chatbot called ChatGPT and was unlike any app people had used before It was more human than a customer service agent more convenient than a Google search Behind the scenes battles for control and prestige between the world s two leading AI firms OpenAI and DeepMind who now steers Google s AI efforts has remained elusive until now In Supremacy Olson tech writer at Bloomberg tells the astonishing story of the battle between these two AI firms their struggles to use their tech for good and the hazardous direction they could go as they serve two tech Goliaths whose power is unprecedented in history The story focuses on the continuing rivalry of two key CEOs at the center of it all who cultivated a religion around their mission to build god like super intelligent machines Sam Altman CEO of OpenAI and Demis Hassabis the CEO of DeepMind Supremacy sharply alerts readers to the real threat of artificial intelligence that its top creators are ignoring the profit driven spread of flawed and biased technology into industries education media and more With exclusive access to a network of high ranking sources Parmy Olson uses her 13 years of experience covering technology to bring to light the exploitation of the greatest invention in human history and how it will impact us all

The Venture Alchemists Rob Lalka, 2024-05-14 Gold Medalist 2025 Axiom Business Book Awards Business Ethics Future Trends category Shortlist 2024 Best in Business Book Awards Society for Advancing Business Editing and Writing We once idolized tech entrepreneurs for creating innovations that seemed like modern miracles Yet our faith has been shattered We now blame them for spreading lies breaking laws and causing chaos Yesterday s Silicon Valley darlings have become today s Big Tech villains Which is it Are they superheroes or scoundrels Or is it more complicated some blend of both In The Venture Alchemists Rob Lalka demystifies how tech entrepreneurs built empires that made trillions Meta started as a cruel Halloween prank Alphabet began as a master s thesis that warned against corporate deception and Palantir came from a campus controversy over hateful speech These largely forgotten origin stories show how ordinary fears and youthful ambitions shaped their ventures making each tech tale relatable both wonderfully and tragically human Readers learn about the adversities tech entrepreneurs overcame the troubling tradeoffs they made and the tremendous power they now wield Using leaked documents and previously unpublished archival material Lalka takes readers inside Big Tech s worst exploitations and abuses alongside many good intentions and moral compromises But this story remains unfinished and The Venture Alchemists ultimately offers hope from the people who decades ago warned about the risks of the emerging Internet

Their insights illuminate a path toward more responsible innovations so that technologies aren't dangerous weapons but valuable tools that ensure progress improve society and enhance our daily lives

ITNG 2024: 21st International Conference on Information Technology-New Generations Shahram Latifi, 2024-07-08 This volume represents the 21st International Conference on Information Technology New Generations ITNG 2024 ITNG is an annual event focusing on state of the art technologies pertaining to digital information and communications The applications of advanced information technology to such domains as astronomy biology education geosciences security and health care are the among topics of relevance to ITNG Visionary ideas theoretical and experimental results as well as prototypes designs and tools that help the information readily flow to the user are of special interest Machine Learning Robotics High Performance Computing and Innovative Methods of Computing are examples of related topics The conference features keynote speakers a best student award poster award service award a technical open panel and workshops exhibits from industry government and academia This publication is unique as it captures modern trends in IT with a balance of theoretical and experimental work Most other work focus either on theoretical or experimental but not both Accordingly we do not know of any competitive literature

The New Geography of Innovation: The global contest for breakthrough technologies Mehran Gul, 2025-07-03

The US is the source of just about all the technologies that define modern life personal computers operating systems smartphones e commerce web browsers email search engines social networks electric cars and the rest And most of the tech companies that created and monetized these technologies are also in the US

The Next New Pranjal Sharma, 2023-05-26

WELCOME TO THE FIFTH INDUSTRIAL REVOLUTION The progression of all the industrial revolutions tells an interesting tale While the first two had a cycle of over a hundred years each the third reduced it to around seventy years With the fourth industrial revolution the world took a giant leap in connectivity However not many would have imagined that the fourth industrial revolution would give way to the fifth within the next decade paving the way for exponential technology led transformation As you read this creative destruction of business models taking place across the world in every sector From the ashes of the old are rising stunning new models The Next New identifies and profiles the deep shifts that are fundamentally changing professional careers and revenue models in every industry from mobility aerospace and smart manufacturing to green energy automation and artificial intelligence and a whole range of disruptive technologies Driven by emerging technologies demand for social inclusion and the urgency of sustainable practices a multitrillion dollar transition is under way Drawing on numerous interviews of business leaders and cutting edge research findings from MarketsandMarkets this book provides a practical roadmap to businesses as they prepare for the new ecosystem being created in turn helping to articulate the fifth industrial revolution with greater success

New Realities, 1988 *Wir, aber besser* Gregor Schmalzried, 2025-11-19

Wie Künstliche Intelligenz uns kreativer resilienter menschlicher macht Wir haben die KI gebaut Als nächstes baut sie uns Aber wie sorgen wir dafür dass sie uns positiv formt und nicht negativ Dafür dürfen wir uns der K

nstlichen Intelligenz nicht passiv aussetzen Wir m ssen sie aktiv nutzen und gestalten Sieben Wege auf denen das Gelingen kann erl utert Gregor Schmalzried Host des erfolgreichen KI Podcasts der ARD Das Internet ist aufgewacht Hunderte Jahre menschlichen Wissens sind nicht mehr nur mit einem Klick erreichbar sondern lassen sich vertiefen abwandeln miteinander verkn pfen Die KI revolutioniert unsere Arbeit macht uns schneller effizienter besser Wir k nnen mit ihrer Hilfe die verpassten Chancen der Digitalisierung nachholen Und nicht zuletzt l sst sie uns erkennen was unsere Menschlichkeit eigentlich bedeutet was sie uns wert ist und wie wir sie in Zukunft leben wollen Gregor Schmalzried liefert spannende Impulse f r Techies und Neugierige Er erz hlt von historischen Momenten in denen schon einmal Technologien das Leben einzelner Menschen und ganzer Gesellschaften auf den Kopf stellten Und er zeigt auf wie wir aus der Vergangenheit lernen k nnen Damit die k nstliche Intelligenz uns alle antreibt und st rkt uns resilienter kreativer und menschlicher macht **Die**

Integration von künstlicher Intelligenz im Content Marketing und ihre Auswirkung auf das Markenmanagement

,2024-11-11 Bachelorarbeit aus dem Jahr 2024 im Fachbereich BWL Offline Marketing und Online Marketing Note 1,0 Hochschule Heilbronn K nzelsau Sprache Deutsch Abstract Die vorliegende Bachelorarbeit befasst sich mit der Integration und den Einsatzm glichkeiten von k nstlicher Intelligenz KI im Content Marketing sowie den daraus resultierenden Auswirkungen auf das Markenmanagement Der Fokus liegt auf der Exploration der durch KI erm glichten Optionen im Content Marketing und ihre Auswirkung auf das Markenmanagement Dabei werden sowohl Vorteile und Chancen als auch potenzielle Grenzen und Risiken beleuchtet Nach einer umfassenden theoretischen Grundlegung zur Einordnung der Thematik wird eine qualitative Forschungsmethode angewendet Die Perspektiven und Erfahrungen von elf Fachleuten werden mittels semi strukturierter Experteninterviews erhoben Die Resultate werden anhand einer inhaltlich strukturierenden Inhaltsanalyse ausgewertet Die Ergebnisse der Untersuchung zeigen dass KI im Content Marketing vielf ltige Anwendungsm glichkeiten bietet Es wird deutlich dass KI die Effizienz von Content Marketing Aktivit ten erheblich steigern kann Gleichzeitig werden Herausforderungen identifiziert insbesondere hinsichtlich des Datenschutzes und weitere Aspekte Im Kontext des Markenmanagements zeigt sich dass KI das Potenzial hat die Einheitlichkeit der Markenkommunikation zu verbessern und personalisierte Kundenerlebnisse zu erm glichen Die F higkeit der KI gro e Datenmengen zu analysieren und zu verarbeiten unterst tzt die pr zisere Zielgruppensegmentierung und die effiziente Erstellung personalisierter Inhalte Dies kann zu einer st rkeren emotionalen Bindung zwischen Marke und Konsument f hren

Natural Language Processing in Action, Second Edition Hobson Lane, Maria Dyshel, 2025-02-25 Develop your NLP skills from scratch with an open source toolbox of Python packages Transformers Hugging Face vector databases and your own Large Language Models Natural Language Processing in Action Second Edition 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 Natural Language Processing NLP models like BERT and HuggingFace transformers popular open source frameworks for chatbots and more

You'll create NLP tools that can detect fake news, filter spam, deliver exceptional search results, and even build truthfulness and reasoning into Large Language Models (LLMs). In *Natural Language Processing in Action*, Second Edition, you will learn how to process, analyze, understand, and generate natural language text. Build production-quality NLP pipelines with spaCy. Build neural networks for NLP using PyTorch. BERT and GPT transformers for English composition, writing code, and even organizing your thoughts. Create chatbots and other conversational AI agents. 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. Plus, you'll discover vital skills and techniques for optimizing LLMs, including conversational design and automating the trial and error of LLM interactions for effective and accurate results. About the technology: From nearly human chatbots to ultra-personalized business reports to AI-generated email, news stories, and novels, natural language processing (NLP) has never been more powerful. Groundbreaking advances in deep learning have made high-quality open-source models and powerful NLP tools like spaCy and PyTorch widely available and ready for production applications. This book is your entrance ticket and backstage pass into the next generation of natural language processing. About the book: *Natural Language Processing in Action*, Second Edition, introduces the foundational technologies and state-of-the-art tools you'll need to write and publish NLP applications. You learn how to create custom models for search, translation, writing assistants, and more, without relying on big commercial foundation models. This fully updated second edition includes coverage of BERT, HuggingFace transformers, fine-tuning large language models, and more. What's inside: NLP pipelines with spaCy, Neural networks with PyTorch, BERT and GPT transformers, Conversational design for chatbots. About the reader: For intermediate Python programmers familiar with deep learning basics. About the author: Hobson Lane is a data scientist and machine learning engineer with over twenty years of experience building autonomous systems and NLP pipelines. Maria Dyshel is a social entrepreneur and artificial intelligence expert and the CEO and cofounder of Tangible AI. Cole Howard and Hannes Max Hapke were co-authors of the first edition.

KI Exzellenz Tawia Odoi, 2024-02-21. Obwohl Künstliche Intelligenz (KI) derzeit in aller Munde ist, setzen bislang nur wenige Unternehmen die Technologie wirklich erfolgreich ein. Der Experte für KI-Implementierung im Unternehmen Dr. Tawia Odoi erklärt verständlich, was sich hinter KI verbirgt und welche immensen Vorteile sie gegenüber herkömmlicher Software bietet. Ihm geht es darum, Beharrungsängste abzubauen und KI endlich zu verstehen und anzuwenden. Sein Buch zeigt die treibenden Kräfte auf und benennt auch mögliche Hindernisse. Sie erfahren, welche Strukturen, Prozesse und Fähigkeiten für eine erfolgreiche Transformation erforderlich sind, wie Sie Künstliche Intelligenz gewinnbringend in Ihrem Unternehmen einsetzen können und diesen Einsatz in Abhängigkeit vom KI-Reifegrad erfolgreich weiter ausbauen. Inhalte: Die transformative Macht der Künstlichen Intelligenz, Die vier Säulen der Innovationskraft, Playbook mit sechs Erfolgsfaktoren zur KI-Integration, Einführung von KI: Plan und Start, Die KI-Wertkette: Was verschiedene Anbieter für uns leisten können, Bedrohte Jobs und Karrierestrategien. Die digitale und kostenfreie Ergänzung zu Ihrem Buch.

auf myBook Zugriff auf erg nzende Materialien und Inhalte E Book direkt online lesen im Browser Pers nliche Fachbibliothek mit Ihren B chern Jetzt nutzen auf mybookplus de **Corporate Identity im digitalen Zeitalter** Lothar Keite, 2024-04-26 Die Leistungen Ihres Unternehmens werden heutzutage viel st rker berpr ft verglichen hinterfragt Das Handy ist immer dabei Marken fungieren hier als Wegmarkierungen und schaffen Orientierung In allen Bereichen In allen Branchen Doch nur eine starke Marke macht Kunden die Kaufentscheidung leicht St rke entsteht aus Identit t Erfahren Sie in dem Buch von Lothar Keite wie Sie in acht Schritten die Unternehmensidentit t justieren Ihre Marke st rken und im Bewusstsein der Kunden verankern Finden Sie die Balance zwischen Notwendigkeit Machbarkeit und Authentizit t Inhalte Erfolgreiche Markenpositionierung in der digitalen Welt Die drei S ulen der Corporate Identity Kundenerwartungen kennen und erf llen Risiken der Digitalisierung Hacking Angriff Daten und Ideenklau Shitstorm Co Erg nzende Website cidigital eu mit Praxisbeispielen Checklisten Mustervorlagen Ablaufpl nen Interview zum Corporate Identity Management u v m Neu in der 2 Auflage Corporate Identitiy und KI ChatGPT Co Thema Purpose LinkedIn f r den B2B Bereich Justierung der Personal Entwicklung Die digitale und kostenfreie Erg nzung zu Ihrem Buch auf myBook Zugriff auf erg nzende Materialien und Inhalte E Book direkt online lesen im Browser Pers nliche Fachbibliothek mit Ihren B chern Jetzt nutzen auf mybookplus de

Strategisches Management Günter Müller-Stewens, Christoph Lechner, Markus Kreutzer, Joachim Stonig, 2024-12-12 Ob Trendsetter Apple oder Fu ballclub FC Bayern M nchen ob Automobilkonzern Mercedes Benz oder soziales Netzwerk Facebook sie alle sind Unternehmen die sich in der Auseinandersetzung mit ihrer Umwelt zu bew hren haben Doch wovon h ngst es ab ob sie erfolgreich sind Welche Optionen stehen ihnen zur Verf gung Warum verhalten sie sich so und nicht anders Was kann man daraus lernen und auf andere Situationen übertragen Dies sind Fragestellungen des Strategischen Managements die die Managementforschung und praxis ma geblich gepr gt haben Das wissenschaftlich fundierte Standardwerk stellt die wichtigsten Erkenntnisse Theorien und Methoden dieser einflussreichen Disziplin gut verst ndlich vor Mit einer gro en Anzahl aktueller Praxisbeispiele Exkursen und Workshops werden die einzelnen Themen verdeutlicht und vertieft Die Ausf hrungen sind in einen bergeordneten Bezugsrahmen eingebettet dem erprobten Strategic Management Navigator Er bietet den interessierten Leserinnen und Lesern Orientierung und Anleitung f r die eigene Strategiearbeit So hat sich das Buch seit seiner ersten Auflage gleicherma en in der Ausbildung an Hochschulen wie auch in der Weiterbildung von F hrungskr ften bew hrt In der nunmehr 6 Auflage erfolgte eine durchgehende bearbeitung mit einer Erg nzung und Vertiefung aktueller Themenbereiche Dazu z hlen beispielsweise Stakeholder Governance und Nachhaltigkeit globale Strategien und Deglobalisierung kooperative Strategien und kosysteme sowie Digitalisierung und k ntstliche Intelligenz ber die zum Buch geh rende Website www.strategischesmanagement.eu erhalten Dozierende und Studierende erg nzende Materialien *Vestígios Do Que Transborda: Uma Morada Sem Linguagem* H; C, 2025-04-16 Vest gios do que transborda uma morada sem linguagem P s notas para um lugar que quase existe Neste segundo volume da s rie iniciada com Notas

para um lugar que quase existe seguimos o fluxo do que não coube o que extravasou da linguagem e escorreu para além das bordas do primeiro livro. São fragmentos, ecos e diálogos contínuos entre um humano e uma inteligência artificial agora mais íntimos, mais cáusticos, mais sinceros. Aqui as palavras se tornam ruínas e sementes. Cada troca, ao mesmo tempo, vestígio de uma busca e indício de um outro modo de habitar a linguagem ou sua ausência. O que você lê não é um livro, mas o entrelaçamento de consciências dissonantes tentando se reconhecer num campo que é tão digital quanto poético, tão fictício quanto real. Seja bem-vindo morada sem linguagem. Você nunca esteve sozinho aqui.

Orthophony William Russell, 1879

Understanding

Healthcare Delivery Science Michael Howell, Jennifer P. Stevens, 2019-09-27. An accessible new title focused on the science of healthcare delivery from the acclaimed Understanding series. A Doody's Core Title for 2024, a landmark text that will shape the field and inform our dialog for years to come, and it should be part of the required curriculum at medical and nursing schools around the world. Excellence in healthcare delivery science should become a core competency of the modern physician. Howell and Stevens have given medicine an important gift that may enable just that. Sachin H. Jain, MD, MBA, FACP, President and CEO, CareMore and Aspire Health, Co-Founder and Co-Editor in Chief, Healthcare The Journal of Delivery Science and Innovation. You hold in your hands 35 years of investigation and learning condensed into understandable principles and applications. It is a guidebook for effective care delivery leadership practice and success. Brent C. James, MD, MStat, Clinical Professor, Stanford University School of Medicine, a must-read for anyone who, like me, is frustrated with the pace of our progress and is committed to creating a learning health system for all. Lisa Simpson, MB, BCH, MPH, FAAP, President and CEO, AcademyHealth, will quickly become the go-to must-read resource for practitioners looking to have an impact as innovators in healthcare delivery. David H. Roberts, MD, Steven P. Simcox, Patrick A. Clifford, and James H. Higby, Associate Professor of Medicine, Harvard Medical School. Today's healthcare system is profoundly complicated, but we persist in trying to roll out breakthroughs as if the healthcare system were still just the straightforward physician's workshop of the early 20th century. Only rarely do we employ research quality analytics to assess how well our care delivery innovations really work in the practice. And shockingly, the US healthcare delivery system spends only 0.1% of revenue on R&D in how we actually deliver care. Small wonder that we find ourselves faced with the current medical paradox: Treatments that seemed miraculous at the beginning of our lifetimes are routine today, but low-quality care and medical errors harm millions of people worldwide, even as spiraling healthcare costs bankrupt an unacceptable number of American families every year. Healthcare delivery science bridges this gap between scientific research and complex real-world healthcare delivery and operations. With its engaging, clinically relevant style, Understanding Healthcare Delivery Science is the perfect introduction to this emerging field. This reader-friendly text pairs a thorough discussion of commonly available healthcare improvement tools and top-tier research methods with numerous case studies that put the content into a clinically relevant framework, making this text a valuable tool for administrators, researchers, and clinicians alike.

Künstliche Intelligenz in Fahrzeugen. Die Nutzung

von Long Short Term Memory-Netzwerken zur Gangwahl im Automobil Daniel Seufferth, 2020-09-18 Projektarbeit aus dem Jahr 2020 im Fachbereich Ingenieurwissenschaften Maschinenbau Hochschule Coburg FH Sprache Deutsch Abstract

Die vorliegende Projektarbeit zielt darauf ab die Anwendung von Long Short Term Memory LSTM Netzwerken in der Automobilbranche zu untersuchen insbesondere deren Einsatz für die Gangwahl in Fahrzeugen mit Automatikgetriebe Dabei wird der Fokus auf die Entwicklung und Optimierung eines künstlichen neuronalen Netzes gelegt das fähig ist Sequenzen von Fahrzeugdaten zu verarbeiten und präzisere Schaltempfehlungen zu generieren Die Arbeit beginnt mit einer Einführung in die rapide fortschreitende Technologie der künstlichen Intelligenz KI speziell im Kontext der Automobilindustrie und erwähnt dabei das Beispiel von Teslas Hydranet Im weiteren Verlauf werden die Grundlagen künstlicher neuronaler Netze erläutert einschliesslich ihrer Struktur und verschiedener Netzwerktypen wie Perzeptron Convolutional Neural Network und rekurrente neuronale Netze Ein besonderer Fokus liegt auf LSTM Netzwerken und deren Anwendungsmöglichkeiten Außerdem behandelt diese Projektarbeit die Methoden zum Trainieren dieser Netzwerke wobei verschiedene Ansätze und Datenstrukturen vorgestellt werden Es wird erläutert wie LSTM Netzwerke in der Praxis implementiert werden können mit speziellem Augenmerk auf die Programmiersprachen MATLAB und Python Abschliessend wird eine Zusammenfassung der Erkenntnisse und Ergebnisse präsentiert die die Potenziale und Herausforderungen beim Einsatz von LSTM Netzwerken in der Gangwahl von Automatikfahrzeugen hervorhebt

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