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Inside Nvidia: Jensen Huang's Vision for Artificial Intelligence Alistair Maxwell, PhD, Daniel D. Lee, 2024-08-06
Inside Nvidia Jensen Huang's Vision for Artificial Intelligence by Dr Alistair Maxwell PhD is a comprehensive exploration of Nvidia's journey from a fledgling graphics card company to a global leader in AI technology Through meticulous research and insightful analysis Dr Maxwell delves into the strategic decisions and visionary leadership of Jensen Huang the co-founder and CEO of Nvidia This book provides readers with an in depth understanding of how Nvidia has revolutionized industries ranging from gaming to healthcare with its cutting edge GPUs and AI advancements It covers the company's strategic acquisitions partnerships and innovations that have positioned it at the forefront of the AI revolution Dr Maxwell also explains complex AI concepts making them accessible to the average reader and explores the ethical considerations and future prospects of AI technology From the architecture of Nvidia's GPUs to their applications in autonomous vehicles healthcare and beyond Inside Nvidia is a must read for anyone interested in the intersection of technology business and artificial intelligence Published by AGI Publishing this book is not only a detailed account of Nvidia's past and present but also a visionary look at the future of AI and its potential to transform our world Available now on Google Play this book is perfect for technology enthusiasts business leaders and anyone curious about the future of AI Dive into the fascinating story of Nvidia and discover how Jensen Huang's vision is shaping the future of artificial intelligence

EDGE AI - A Potential Game Changer S. R. Jena, Dr. Dileep Kumar M., Dr. Sohit Agarwal, Dr. Vineet Mehan, 2025-04-20 This book will provide a comprehensive exploration of edge AI detailing its underlying technologies current applications and future potential It will bridge the gap between theoretical concepts and practical implementations making it an invaluable resource for researchers industry professionals and students alike This book aims to be a seminal work that not only educates but also inspires its readers to harness the power of edge AI

[Explainable Artificial Intelligence for Smart Cities](#) Mohamed Lahby, Utku Kose, Akash Kumar Bhoi, 2021-11-09 Thanks to rapid technological developments in terms of Computational Intelligence smart tools have been playing active roles in daily life It is clear that the 21st century has brought about many advantages in using high level computation and communication solutions to deal with real world problems however more technologies bring more changes to society In this sense the concept of smart cities has been a widely discussed topic in terms of society and Artificial Intelligence oriented research efforts The rise of smart cities is a transformation of both community and technology use habits and there are many different research orientations to shape a better future The objective of this book is to focus on Explainable Artificial Intelligence XAI in smart city development As recently designed advanced smart systems require intense use of complex computational solutions i.e Deep Learning Big Data IoT architectures the mechanisms of these systems become black box to users As this means that there is no clear clue about what is going on within these systems anxieties regarding ensuring trustworthy tools also rise In recent years attempts have been made to solve this issue

with the additional use of XAI methods to improve transparency levels This book provides a timely global reference source about cutting edge research efforts to ensure the XAI factor in smart city oriented developments The book includes both positive and negative outcomes as well as future insights and the societal and technical aspects of XAI based smart city research efforts This book contains nineteen contributions beginning with a presentation of the background of XAI techniques and sustainable smart city applications It then continues with chapters discussing XAI for Smart Healthcare Smart Education Smart Transportation Smart Environment Smart Urbanization and Governance and Cyber Security for Smart Cities

Proceedings of the 15th International Conference on Ubiquitous Computing & Ambient Intelligence (UCAmI 2023) José Bravo, Gabriel Urzáiz, 2023-11-25 This book serves as a comprehensive compilation of groundbreaking research endeavors within the realms of ambient intelligence and ubiquitous computing These initiatives are pivotal in enabling both researchers and practitioners to discern recent breakthroughs and emerging frontiers in these fields Encompassing a wide array of domains including Ambient Active and Assisted Living A3L the Internet of Things IoT Smart Environments Data Science and Human Ambient Interaction acts as a valuable resource for scholars professionals and graduate students alike The primary aim of this book is to empower individuals within the academic and professional community to harness this wealth of knowledge It equips them to tackle innovative challenges and engineer smart and ubiquitous solutions that will shape the landscape of the next decade By amalgamating insights from various facets of ambient intelligence and ubiquitous computing this book encourages cross disciplinary collaboration and fosters a holistic understanding of the field Thus it not only highlights the recent strides in these areas but also serves as a roadmap for future exploration and innovation paving the way for a smarter and more interconnected world

Computational Science and Its Applications - ICCSA 2025 Workshops Osvaldo Gervasi, Beniamino Murgante, Chiara Garau, Yeliz Karaca, Maria Noelia Faginas Lago, Francesco Scorza, Ana Cristina Braga, 2025-08-06 The fourteen volume set LNCS 15886 15899 constitutes the papers of several workshops which were held in conjunction with the 25th International Conference on Computational Science and Its Applications ICCSA 2025 held in Istanbul Turkey during June 30 July 3 2025 The 362 full papers 37 short papers and 2 PHD showcase included in this book were carefully reviewed and selected from 1043 submissions In addition the conference consisted of 58 workshops focusing on very topical issues of importance to science technology and society from new mathematical approaches for solving complex computational systems to information and knowledge in the Internet of Things new statistical and optimization methods several Artificial Intelligence approaches sustainability issues smart cities and related technologies

Hands-On Deep Learning for IoT Md. Rezaul Karim, 2019-06-27 Implement popular deep learning techniques to make your IoT applications smarter Key Features Understand how deep learning facilitates fast and accurate analytics in IoT Build intelligent voice and speech recognition apps in TensorFlow and Chainer Analyze IoT data for making automated decisions and efficient predictions Book Description Artificial Intelligence is growing quickly which is driven by

advancements in neural networks NN and deep learning DL With an increase in investments in smart cities smart healthcare and industrial Internet of Things IoT commercialization of IoT will soon be at peak in which massive amounts of data generated by IoT devices need to be processed at scale Hands On Deep Learning for IoT will provide deeper insights into IoT data which will start by introducing how DL fits into the context of making IoT applications smarter It then covers how to build deep architectures using TensorFlow Keras and Chainer for IoT You ll learn how to train convolutional neural networks CNN to develop applications for image based road faults detection and smart garbage separation followed by implementing voice initiated smart light control and home access mechanisms powered by recurrent neural networks RNN You ll master IoT applications for indoor localization predictive maintenance and locating equipment in a large hospital using autoencoders DeepFi and LSTM networks Furthermore you ll learn IoT application development for healthcare with IoT security enhanced By the end of this book you will have sufficient knowledge need to use deep learning efficiently to power your IoT based applications for smarter decision making What you will learnGet acquainted with different neural network architectures and their suitability in IoTUnderstand how deep learning can improve the predictive power in your IoT solutionsCapture and process streaming data for predictive maintenanceSelect optimal frameworks for image recognition and indoor localizationAnalyze voice data for speech recognition in IoT applicationsDevelop deep learning based IoT solutions for healthcareEnhance security in your IoT solutionsVisualize analyzed data to uncover insights and perform accurate predictionsWho this book is for If you re an IoT developer data scientist or deep learning enthusiast who wants to apply deep learning techniques to build smart IoT applications this book is for you Familiarity with machine learning a basic understanding of the IoT concepts and some experience in Python programming will help you get the most out of this book

Engineering Applications of AI and Swarm Intelligence Xin-She Yang,2024-09-25 The book is focused on latest developments and findings on engineering applications of AI and swarm intelligence It provides comprehensive reviews and surveys on implementations and coding aspects of case studies and applications where appropriate The book is useful for scholars lecturers and practitioners from academia and industrial applications The readership of this book also includes Ph D students and researchers with a wide experience in the subject areas Smart Assisted Living Feng Chen,Rebeca I. García-Betances,Liming Chen,María Fernanda Cabrera-Umpiérrez,Chris Nugent,2019-08-20 Smart Homes SH offer a promising approach to assisted living for the ageing population Yet the main obstacle to the rapid development and deployment of Smart Home SH solutions essentially arises from the nature of the SH field which is multidisciplinary and involves diverse applications and various stakeholders Accordingly an alternative to a one size fits all approach is needed in order to advance the state of the art towards an open SH infrastructure This book makes a valuable and critical contribution to smart assisted living research through the development of new effective integrated and interoperable SH solutions It focuses on four underlying aspects 1 Sensing and Monitoring Technologies 2 Context Interference and Behaviour Analysis 3

Personalisation and Adaptive Interaction and 4 Open Smart Home and Service Infrastructures demonstrating how fundamental theories models and algorithms can be exploited to solve real world problems This comprehensive and timely book offers a unique and essential reference guide for policymakers funding bodies researchers technology developers and managers end users carers clinicians healthcare service providers educators and students helping them adopt and implement smart assisted living systems

High Energy Efficiency Neural Network Processor with Combined Digital and Computing-in-Memory Architecture Jinshan Yue,2024-08-01 Neural network NN algorithms are driving the rapid development of modern artificial intelligence AI The energy efficient NN processor has become an urgent requirement for the practical NN applications on widespread low power AI devices To address this challenge this dissertation investigates pure digital and digital computing in memory digital CIM solutions and carries out four major studies For pure digital NN processors this book analyses the insufficient data reuse in conventional architectures and proposes a kernel optimized NN processor This dissertation adopts a structural frequency domain compression algorithm named CirCNN The fabricated processor shows 8 1x 4 2x area energy efficiency compared to the state of the art NN processor For digital CIM NN processors this dissertation combines the flexibility of digital circuits with the high energy efficiency of CIM The fabricated CIM processor validates the sparsity improvement of the CIM architecture for the first time This dissertation further designs a processor that considers the weight updating problem on the CIM architecture for the first time This dissertation demonstrates that the combination of digital and CIM circuits is a promising technical route for an energy efficient NN processor which can promote the large scale application of low power AI devices

Intelligent Urban Mobility Muhammet Deveci,2025-07-04 Intelligent Urban Mobility Decision Support Systems for Sustainable Transportation explores the role of technology in enabling greener more accessible transportation in cities worldwide This book provides insights into leveraging decision support systems to drive positive change by focusing on applied soft computing techniques artificial intelligence and algorithms for fuzzy systems Researchers and professionals will find actionable information on mitigating congestion and emissions through sustainable mobility initiatives which bridges the gap between theory and real world practice The book also offers technical guidance and expert perspectives on the application of decision support systems to evaluate and optimize planning for sustainable transit options The book highlights innovative models and frameworks for analyzing mobility options and planning sustainable transport systems It is an essential resource for researchers graduate students and professionals in transportation urban planning civil engineering and decision sciences who aim to redesign city transportation to reduce environmental impact and carbon emissions Provides an overview of the most recent advances in the development of decision support systems for the implementation of sustainable urban mobility Presents various urban mobility applications using artificial intelligence applied soft computing techniques and other decision support systems Offers solutions for the design development and integration of sustainable urban transport options

Edge Computing

and Capability-Oriented Architecture Haishi Bai, Boris Scholl, 2021-08-15 Fueled by ubiquitous computing ambitions the edge is at the center of confluence of many emergent technological trends such as hardware rooted trust and code integrity 5G data privacy and sovereignty blockchains and distributed ledgers ubiquitous sensors and drones autonomous systems and real time stream processing Hardware and software pattern maturity have reached a tipping point so that scenarios like smart homes smart factories smart buildings smart cities smart grids smart cars smart highways are in reach of becoming a reality While there is a great desire to bring born in the cloud patterns and technologies such as zero downtime software and hardware updates upgrades to the edge developers and operators alike face a unique set of challenges due to environmental differences such as resource constraints network availability and heterogeneity of the environment The first part of the book discusses various edge computing patterns which the authors have observed and the reasons why these observations have led them to believe that there is a need for a new architectural paradigm for the new problem domain Edge computing is examined from the app designer and architect s perspectives When they design for edge computing they need a new design language that can help them to express how capabilities are discovered delivered and consumed and how to leverage these capabilities regardless of location and network connectivity Capability Oriented Architecture is designed to provide a framework for all of these This book is for everyone who is interested in understanding what ubiquitous and edge computing means why it is growing in importance and its opportunities to you as a technologist or decision maker The book covers the broad spectrum of edge environments their challenges and how you can address them as a developer or an operator The book concludes with an introduction to a new architectural paradigm called capability based architecture which takes into consideration the capabilities provided by an edge environment Emerging Technologies and Applications for Cloud-Based

Gaming Krishna, P. Venkata, 2016-07-13 Online gaming is widely popular and gaining more user attention every day Computer game industries have made considerable growth in terms of design and development but the scarcity of hardware resources at player or client side is a major pitfall for the latest high end multimedia games Cloud gaming is one proposed solution allowing the end user to play games using a variety of platforms with less demanding hardware requirements Emerging Technologies and Applications for Cloud Based Gaming explores the opportunities for the gaming industry through the integration of cloud computing Focusing on design methodologies fundamental architectures and the end user experience this publication is an essential reference source for IT specialists game developers researchers and graduate level students *Gesture Recognition* Qiguang Miao, Yunan Li, Xiangzeng Liu, Ruyi Liu, 2024-07-09 Gesture Recognition Theory and Applications covers this important topic in computer science and language technology that has a goal of interpreting human gestures via mathematical algorithms The book begins by examining the computer vision based gesture recognition method focusing on the theory and related research results of various recent gesture recognition technologies The book takes the evolutions of gesture recognition technology as a clue systematically introducing gesture recognition methods

based on handcrafted features convolutional neural networks recurrent neural networks multimodal data fusion and visual attention mechanisms Three gesture recognition based HCI Human Computer Interaction practical cases are introduced Finally the book looks at emerging research trends and application Focuses on the theory and application of gesture recognition providing a systematic introduction to commonly used datasets in the field as well as algorithms based on handcrafted features convolutional neural networks multimodal fusion and attention mechanisms Introduces the practical applications of gesture recognition in real world scenarios enabling readers to enhance their practical application skills while learning about relevant technologies Demonstrates four main categories of gesture recognition methods and analyzes their associated challenges

AI in Wireless for Beyond 5G Networks Sukhdeep Singh,Yulei Wu,Mohan Rao GNS,Kaustubh Joshi,Payam Barnaghi,Madhan Raj Kanagarathinam,2024-02-02 Artificial intelligence AI is a game changer in many domains and wireless communication networks are no exception With the advent of 5G networks we have witnessed rapid growth in wireless connectivity which has led to unprecedented opportunities for innovation and new use cases However as we move beyond 5G B5G the challenges and opportunities are set to become even more significant offering new previously unimaginable services AI in Wireless for Beyond 5G Networks provides a comprehensive overview of the use of AI in wireless communication for B5G networks The authors draw on their expertise in the field to explore the latest developments in AI technologies and their applications in B5G wireless communication systems The book discusses a wide range of topics including enabling AI technologies architecture and applications of AI from smartphones radio access networks RANs edge and core networks and application service providers It also discusses the trends in on device AI for B5G networks This book is written in an accessible style making it an ideal resource for academics researchers and industry professionals in wireless communication It provides valuable insights into the latest field trends and developments and practical possibilities for implementing AI technologies in wireless communication systems Above all this book is a testament to the power of collaboration and innovation in wireless communication The authors dedication and expertise have produced a valuable resource for anyone interested in the latest AI and wireless communication developments This book will inspire and inform readers and we highly recommend it to scholars interested in the future of AI in wireless communication

Service-Oriented Computing Flavia Monti,Stefanie Rinderle-Ma,Antonio Ruiz Cortés,Zibin Zheng,Massimo Mecella,2023-11-21 These two volumes constitute the proceedings of the 21st International Conference ICSOC 2023 held Rome Italy during November 28 December 1 2023 The 35 full papers and the 10 short papers included in this volume were carefully reviewed and selected from 208 submissions The volumes focus on cutting edge topics like artificial intelligence machine learning big data analytics the Internet of Things IoT and emerging technologies such as quantum computing blockchain chatbots and sustainable green IT solutions

Database Management using AI: A Comprehensive Guide A Purushotham Reddy,2024-10-20 Database Management Using AI The Ultimate Guide for Data Professionals Database

Management Using AI A Comprehensive Guide is an essential resource for anyone eager to explore how artificial intelligence AI is revolutionizing the field of database management This book caters to a wide audience from database administrators data scientists and tech enthusiasts to professionals looking to integrate AI into their data management practices It offers a professional yet easily understandable exploration of how AI is transforming modern data systems The guide starts by laying a solid foundation in database management fundamentals covering key concepts such as data models SQL and database design principles It then delves into how AI can optimize database performance enhance security and automate complex tasks like data retrieval query optimization and schema design With this book readers will gain deep insights into integrating AI with traditional database systems and how AI tools are shaping the future of data management Unlike other books that focus purely on theory this guide stands out by emphasizing real world applications Through practical case studies it demonstrates how AI driven database systems are being leveraged across industries such as e commerce healthcare finance and logistics These case studies show the real world impact of AI helping businesses increase efficiency reduce errors and make smarter data backed decisions The book illustrates how AI is enabling organizations to stay ahead in a competitive market by harnessing the power of intelligent database management Throughout the guide readers will learn about the evolution of database systems including the shift from relational databases to modern NoSQL databases and how AI is enhancing traditional database models to meet the demands of the digital age The book explores how AI integration in databases is transforming how data is processed and analyzed automating repetitive tasks and improving the scalability and performance of databases One of the key highlights of this book is the coverage of AI in database management Readers will learn how AI is being used to automate routine database tasks improve security by predicting and mitigating threats and streamline database management operations through automation Additionally the book delves into how AI helps in predictive analytics and data mining uncovering hidden patterns and enabling organizations to make accurate predictions based on large volumes of data The book also covers predictive analytics and data mining teaching readers how AI tools can be used to extract valuable insights from data identify trends and uncover business opportunities that were previously hard to detect By understanding how AI can leverage data to drive business intelligence readers will be able to implement AI driven solutions that improve decision making processes Furthermore this guide explores the future of database management with AI It takes a close look at emerging trends including autonomous databases and the growing role of cloud based AI solutions in shaping the future of data management These innovative technologies are creating intelligent self managing databases that are poised to revolutionize how data is stored processed and analyzed Database Management Using AI provides readers with the knowledge and practical skills needed to navigate the fast evolving landscape of AI powered databases Whether you re an industry professional or a student this book is packed with actionable insights that will keep you ahead in the digital world It s a must have resource for anyone looking to understand the practical impact of AI on database systems and harness the

power of machine learning big data and cloud computing to transform their approach to data management With its combination of clear explanations real world case studies and forward looking insights this book is the ultimate guide for anyone wanting to stay competitive in the digital age Database Management Using AI is more than just a book it s an essential tool for anyone serious about mastering the future of data systems Refer [www latest2all com](http://www.latest2all.com) for details

Hands-On GPU-Accelerated Computer Vision with OpenCV and CUDA Bhaumik Vaidya,2018-09-26 Discover how CUDA allows OpenCV to handle complex and rapidly growing image data processing in computer and machine vision by accessing the power of GPU Key FeaturesExplore examples to leverage the GPU processing power with OpenCV and CUDAEnhance the performance of algorithms on embedded hardware platformsDiscover C and Python libraries for GPU accelerationBook Description Computer vision has been revolutionizing a wide range of industries and OpenCV is the most widely chosen tool for computer vision with its ability to work in multiple programming languages Nowadays in computer vision there is a need to process large images in real time which is difficult to handle for OpenCV on its own This is where CUDA comes into the picture allowing OpenCV to leverage powerful NVIDIA GPUs This book provides a detailed overview of integrating OpenCV with CUDA for practical applications To start with you ll understand GPU programming with CUDA an essential aspect for computer vision developers who have never worked with GPUs You ll then move on to exploring OpenCV acceleration with GPUs and CUDA by walking through some practical examples Once you have got to grips with the core concepts you ll familiarize yourself with deploying OpenCV applications on NVIDIA Jetson TX1 which is popular for computer vision and deep learning applications The last chapters of the book explain PyCUDA a Python library that leverages the power of CUDA and GPUs for accelerations and can be used by computer vision developers who use OpenCV with Python By the end of this book you ll have enhanced computer vision applications with the help of this book s hands on approach What you will learnUnderstand how to access GPU device properties and capabilities from CUDA programsLearn how to accelerate searching and sorting algorithmsDetect shapes such as lines and circles in imagesExplore object tracking and detection with algorithmsProcess videos using different video analysis techniques in Jetson TX1Access GPU device properties from the PyCUDA programUnderstand how kernel execution worksWho this book is for This book is a go to guide for you if you are a developer working with OpenCV and want to learn how to process more complex image data by exploiting GPU processing A thorough understanding of computer vision concepts and programming languages such as C or Python is expected **Cloud Computing for Machine Learning and Cognitive Applications** Kai Hwang,2017-07-07 The first textbook to teach students how to build data analytic solutions on large data sets using cloud based technologies This is the first textbook to teach students how to build data analytic solutions on large data sets specifically in Internet of Things applications using cloud based technologies for data storage transmission and mashup and AI techniques to analyze this data This textbook is designed to train college students to master modern cloud computing systems in operating principles architecture design

machine learning algorithms programming models and software tools for big data mining analytics and cognitive applications The book will be suitable for use in one semester computer science or electrical engineering courses on cloud computing machine learning cloud programming cognitive computing or big data science The book will also be very useful as a reference for professionals who want to work in cloud computing and data science Cloud and Cognitive Computing begins with two introductory chapters on fundamentals of cloud computing data science and adaptive computing that lay the foundation for the rest of the book Subsequent chapters cover topics including cloud architecture mashup services virtual machines Docker containers mobile clouds IoT and AI inter cloud mashups and cloud performance and benchmarks with a focus on Google's Brain Project DeepMind and X Lab programs IBM's Watson SyNapse Bluemix programs cognitive initiatives and neurocomputers The book then covers machine learning algorithms and cloud programming software tools and application development applying the tools in machine learning social media deep learning and cognitive applications All cloud systems are illustrated with big data and cognitive application examples *Digital Disruption* Bharat

Vagadia, 2020-09-25 This book goes beyond the hype delving into real world technologies and applications that are driving our future and examines the possible impact these changes will have on industries economies and society at large It details the actions governments and regulators must take in order to ensure these changes bring about positive benefits to the public without stifling innovation that may well be the future source of value creation It examines how organisations in a world of digital ecosystems where industry boundaries are blurring must undertake radical digital transformation to survive and thrive in this new digital world The reader is taken through a framework that critically examines i Digital Connectivity including 5G and IoT ii Data Capture and Distribution which includes smart connected verticals iii Data Integrity Control and Tokenisation that includes cyber security digital signatures blockchain smart contracts digital assets and cryptocurrencies iv Data Processing and Artificial Intelligence and v Disruptive Applications which include platforms virtual and augmented reality drones autonomous vehicles digital twins and digital assistants *AI, IOT AND MACHINE LEARNING BASICS* Dr

Aadam Quraishi MD, Dr. Brajesh Kumar Singh, Ismail Keshta, Dr. Haewon Byeon, 2024-12-30 The 21st century has ushered in a period of unparalleled technological developments which have radically altered how we live work and interact with the environment that surrounds us Artificial Intelligence AI the Internet of Things IoT and Machine Learning ML are three revolutionary technologies that are at the heart of this massive upheaval These technologies are no longer something that will be developed in the future rather they are now influencing industries spurring innovation and building systems that are smarter and more connected Since the advent of the digital revolution the gap between the physical and virtual realities has been crossed This has made it possible for computers to carry out activities make judgments and learn from data with minimum assistance from humans The Internet of Things IoT links common devices to the Internet artificial intelligence AI enables systems to imitate human intellect and machine learning ML enables computers to learn from huge quantities of data

to make predictions and improve performance over time In a society that is becoming more and more dependent on intelligent solutions understanding these technologies is no longer an option Artificial intelligence AI the Internet of Things IoT and machine learning have permeated every facet of contemporary life from wearable gadgets and smart homes to predictive healthcare and driverless automobiles What drives me As will be explained in the chapter the AI ML based Internet of Things systems are making significant contributions to the advancement of all areas of technology and society As a result gaining knowledge about these systems even if it is in a general sense would be beneficial to our growth even in our specialized areas Because it has demonstrated its usefulness across all sectors and businesses the potential that this technological combination possesses is not something that one can either ignore or choose to ignore It will undoubtedly transform from a talent that can be added to one that is required in the future In this chapter you will get an understanding of the most popular 2 P a g e terminology in the world of technology today including artificial intelligence AI machine learning ML and the Internet of Things IoT as well as how these concepts interact with one another In this course you will learn about the rapidly expanding field of artificial intelligence based Internet of Things IoT technologies and how these systems are utilized in everyday life to simplify our lives and enrich our experiences Your perspective will broaden as a result of the numerous applications that will be discussed particularly about how this technology may be utilized and how you can benefit from it

1 2 ARTIFICIAL INTELLIGENCE

We all now have a general understanding of artificial intelligence and how it works To summarise the information that was presented in the introduction artificial intelligence AI can be defined as a vast branch of computer science that endeavors to build smart entities capable of performing intelligent tasks without human intervention In other words AI is the simulation of human intelligence in machines which grants them the capabilities to mimic and behave like humans These entities are grouped under a single umbrella term known as Intelligent Agents IA If an entity can see its surroundings comprehend it and act upon it then that creature is considered an IA It is possible to perceive it as being composed of three halves First there are the Sensors in the system It is a reference to the portion of the AI that is responsible for assisting it in perceiving stimuli from the outside environment The Actuators are the second entity in the system AI can include methods that create the required effects with the assistance of this The third component of the agent is the Effector which is utilized by the agent to exert its influence on the surrounding environment Consequently we can comprehend the idea of PEAS from this Performance Measurement Environment Actuator and Sensor are the components that make up PEAS Using PEAS we can gain a more in depth understanding of Intelligent Agents which in turn helps us develop more effective Rational Agents A performance metric is a judgment of how well something is performing Environment is a term that relates to the surrounding environment which includes the entities that are doing the act Actuators are the components or instruments that are essential to the operation of the mechanism

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Nvidia Gpu Smart Home How To Introduction

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