



# **Ai For Industrial Iot Smart Infrastructure**

**Michael Karner, Johannes  
Peltola, Michael Jerne, Lukas  
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## **Ai For Industrial Iot Smart Infrastructure:**

**Generative AI in Software Engineering** Aguilar-Calderón, José Alfonso,2025-06-13 Generative AI transforms the landscape of software engineering enabling automation creativity and efficiency throughout development By leveraging advanced machine learning models like large language models and code generation tools developers can automate code generation streamline testing and design software architectures This shift accelerates development timelines and redefines the roles of engineers and the skills required in modern software teams As generative AI evolves its integration into software engineering raises important questions around reliability security and human AI collaboration Generative AI in Software Engineering explores the evolving role of generative AI in the software engineering landscape It examines how AI accelerates software development reduces costs and enhances creativity offering real world benefits for businesses This book covers topics such as quantum computing visual intelligence and environment science and is a useful resource for business owners computer engineers academicians researchers and data scientists [Applications of Artificial Intelligence in the Internet of Things](#) Nitin Goyal,Rakesh Kumar,Rakesh Kumar Bansal,Arun Kumar Rana,Shiraz Khurana,Manni Kumar,2024-08-27 This book delves into the dynamic synergy between AI and IoT offering a comprehensive exploration of their transformative potential With a keen eye on the present and future landscapes this book navigates through real world applications showcasing how AI enriches IoT ecosystems amplifying their capabilities across diverse sectors From smart homes and cities to industrial automation and healthcare each chapter unfolds compelling case studies illustrating how AI augments IoT devices to optimize processes enhance decision making and drive innovation As the technological horizon expands the book anticipates emerging trends paving the way for readers to grasp the profound impact AI will continue to wield on the IoT landscape Whether you re a seasoned professional or an enthusiast curious about the intersection of AI and IoT this book offers invaluable insights into the boundless opportunities that await in today s interconnected world and the possibilities that lie ahead *AI FOR A SMARTER TOMORROW: INNOVATIONS ACROSS SECTORS* Dr. Neeraj Sharma,Mr. Jaideep Rukmangan ,Ms. Seema Vasudevan,Prof. (Dr.) Akash Saxena,2025-09-15 Machine Learning ML has emerged as a foundational technology for extracting actionable insights from vast datasets and enabling intelligent decision making across a wide range of industries In an era dominated by data sectors such as healthcare finance transportation agriculture and retail increasingly depend on ML to enhance operational efficiency predict future trends automate routine tasks and deliver personalized user experiences However the effectiveness of ML algorithms varies significantly depending on the nature of the data the specific problem domain algorithmic complexity and performance metrics This paper conducts a comprehensive comparative analysis of widely used ML algorithms Linear Regression Decision Trees Random Forest Support Vector Machines SVM K Nearest Neighbors KNN and Gradient Boosting The evaluation framework includes criteria such as accuracy training and prediction speed scalability to large datasets model interpretability and adaptability to real time

deployment scenarios Real world datasets from multiple domains are employed to assess each algorithm s practical utility disease prediction in healthcare fraud detection in finance recommendation systems in e commerce and environmental forecasting in smart city applications The goal of this study is to highlight the strengths and limitations of each ML technique in diverse use cases offering insight into trade offs between computational efficiency implementation complexity and predictive performance Special attention is paid to the practical challenges encountered during real time deployment such as latency constraints data quality issues and the need for explainability in high stakes environments Ultimately the paper serves as a guide for data scientists developers and decision makers enabling them to select the most appropriate ML algorithm based on specific project requirements and constraints The findings are intended to inform both academic research and industry practice promoting more effective and responsible use of machine learning technologies in solving complex real world problems

### **Generative AI Systems and Creative Automation** Dr.R.Bagavathi

Lakshmi,Mrs.N.Anuradha,Mrs.S.Vedavalli,Dr.T.ThirumalaiKumari,2025-12-11 Dr R Bagavathi Lakshmi Associate Professor Department of Computer Applications Vels Institute of Science Technology Advanced Studies VISTAS Chennai Tamil Nadu India Mrs N Anuradha Assistant Professor and HoD Department of Computer Science Subbalakshmi Lakshmipathy College of Science Madurai Tamil Nadu India Mrs S Vedavalli Assistant Professor Department of Computer Science Vels Institute of Science Technology Advanced Studies VISTAS Chennai Tamil Nadu India Dr T ThirumalaiKumari Assistant Professor Department of School of Computing Science Computer Application Vels Institute of Science Technology and Advanced Studies VISTAS Chennai Tamil Nadu India

### **Edge Artificial Intelligence** Parikshit Narendra Mahalle,Mandar Pramod

Diwakar,Vijaykumar Raghunath Ghule,Yashwant Sudhakar Ingle,2025-08-01 Edge Artificial Intelligence Algorithms Applications Challenges and Ethical Issues introduces the essentials of Edge AI and machine learning It delves into the architecture algorithms and applications of Edge AI offering insights into regulation and governance Real world case studies and practical examples are included providing readers with the knowledge and tools to harness the transformative power of Edge AI This book also addresses the ethical considerations and regulatory aspects of deploying AI at the edge In addition to offering a clear understanding of real time decision making enhanced privacy and efficient applications this book empowers both technical and nontechnical readers by providing practical insights case studies and ethical considerations It helps users implement and govern Edge AI in a responsible and effective manner Offers a comprehensive overview of edge computing that covers everything from the fundamentals to advanced techniques Explores a wide range of real world applications of Edge AI from smart homes to healthcare and autonomous vehicles providing practical insights and use cases Examines the ethical considerations and regulatory aspects of Edge AI helping readers navigate the responsible use of this technology

*6G Impacts on Natural Habitats and Human Life* Haque, Shameemul,Singh, Shashi Kant,2025-05-01 6G technology promises advancements in energy efficiency and sustainable industrial manufacturing for smart cities It also has the

potential to optimize operations by streamlining processes and managing energy consumption but may come with ecological and social costs 6G infrastructure encourages higher energy usage and increases the amount of electronic waste and radiation which may have a negative impact on wildlife and their natural habitats Additionally society may also be threatened by automation taking jobs from humans and subjecting them to health risks from increased radiation exposure Therefore 6G must be deployed responsibly striving towards greater technological environmental and economic sustainability 6G Impacts on Natural Habitats and Human Life highlights the positives of 6G technological advancement and its negative impact on natural habitats It raises concerns about sustainability in terms of technology use nature conservation and humanity Covering topics such as human life management eco intelligence and climate change mitigation this book is an excellent resource for technologists business leaders sustainability scientists sociologists biologists ecologists researchers academicians and more *Navigating the Internet of Things in the 22nd Century - Concepts, Applications, and Innovations* Muhammad Usman Tariq,2025-02-19 Step into the 22nd century where the Internet of Things IoT drives innovation connectivity and transformation across every aspect of life Navigating the Internet of Things in the 22nd Century Concepts Applications and Innovations unveils the web of technologies that define our interconnected world offering a roadmap to understanding its potential and implications This insightful book explores Concepts and Foundations A primer on IoT s evolution and transformative impact Applications Across Industries Learn how IoT is revolutionising traditional systems from healthcare to agriculture Ethical and Security Challenges Explore data privacy cybersecurity and equitable access complexities Visionary Innovations Discover how IoT enables sustainable solutions and reshapes the future of smart cities green energy and more Rich with case studies expert analyses and forward looking perspectives this book is an essential resource for technologists policymakers educators and anyone intrigued by the possibilities of a connected world Whether you seek to understand the IoT revolution or aspire to contribute to it this book equips you with the knowledge to navigate its dynamic landscape Join us in exploring a future where IoT bridges technology and humanity and unlocks new frontiers of innovation collaboration and progress [Maynard's Industrial and Systems Engineering Handbook, Sixth Edition](#) Bopaya Bidanda,2022-09-16 The classic industrial engineering resource fully updated for the latest advances Brought fully up to date by expert Bopaya M Bidanda this go to handbook contains exhaustive application driven coverage of Industrial Engineering IE principles practices materials and systems Featuring contributions from scores of international professionals in the field Maynard s Industrial Engineering Handbook Sixth Edition provides a holistic view of exactly what an Industrial Engineer in today s world needs to succeed All new chapters and sections cover logistics probability and statistics supply chains quality product design systems engineering and engineering management Coverage includes Productivity Engineering economics Human factors ergonomics and safety Compensation management Facility logistics Planning and scheduling Operations research Statistics and probability Supply chains and quality Product design Manufacturing models and analysis Systems

engineering Engineering management The global Industrial Engineer IE application environments *Industrial Internet of Things (IIoT)* R. Anandan, Suseendran Gopalakrishnan, Souvik Pal, Noor Zaman, 2022-03-15 INDUSTRIAL INTERNET OF THINGS IIOT This book discusses how the industrial internet will be augmented through increased network agility integrated artificial intelligence AI and the capacity to deploy automate orchestrate and secure diverse user cases at hyperscale Since the internet of things IoT dominates all sectors of technology from home to industry automation through IoT devices is changing the processes of our daily lives For example more and more businesses are adopting and accepting industrial automation on a large scale with the market for industrial robots expected to reach 73.5 billion in 2023 The primary reason for adopting IoT industrial automation in businesses is the benefits it provides including enhanced efficiency high accuracy cost effectiveness quick process completion low power consumption fewer errors and ease of control The 15 chapters in the book showcase industrial automation through the IoT by including case studies in the areas of the IIoT robotic and intelligent systems and web based applications which will be of interest to working professionals and those in education and research involved in a broad cross section of technical disciplines The volume will help industry leaders by Advancing hands on experience working with industrial architecture Demonstrating the potential of cloud based Industrial IoT platforms analytics and protocols Putting forward business models revitalizing the workforce with Industry 4.0 Audience Researchers and scholars in industrial engineering and manufacturing artificial intelligence cyber physical systems robotics safety engineering safety critical systems and application domain communities such as aerospace agriculture automotive critical infrastructures healthcare manufacturing retail smart transports smart cities and smart healthcare *Design of Secure IoT Systems: A Practical Approach Across Industries* Sumeet Arora, Ramachandra Gambheer, Meenakshi Vohra, 2021-07-16 Build secure IoT devices and networks for a wide range of industries This practical guide fully explains the technology behind the Internet of Things machine to machine communication and automation Written by a team of experts from leading firms *Design of Secure IoT Systems A Practical Approach Across Industries* covers all aspects of system architecture protocols requirements and design You will discover how to design and engineer IoT devices and networks with trust and security The book features industrial automation case studies and simulation examples from a wide range of fields Coverage includes IoT architecture and technology fundamentals Connected machines and M2M communication Network protocols and architecture IoT hardware design fundamentals WAN IP and MAC configuration IoT data systems design Designing with trust and security Data security policies and regulations Cybersecurity threats and risks Automation Use cases across industries Industry compliance and standards [End-to-End Mobile Communications: Evolution to 5G](#) Syed S. Husain, Athul Prasad, Andreas Kunz, JaeSeung Song, Adrian Buckley, Emmanouil Pateromichelakis, 2020-09-04 Explore mobile communications and discover how the technology has evolved to 5G This hands on textbook lays out the foundations of mobile communications from architecture to function with a special focus on 5G services networks and applications Written

by a stellar team of academics and mobile networking practitioners End to End Mobile Communications Evolution to 5G clearly explains the latest capabilities standards and practices along with background and examples The book contains a primer on the vast topic of mobile technology security and offers a look toward future trends and emerging technologies Coverage includes An introduction to mobile communications Background on mobile network services Evolution of mobile technologies 5G services and applications 5G radio access network architecture 5G core network architecture Security Future evolution of mobile systems Decision Support Systems and Industrial IoT in Smart Grid, Factories, and Cities Butun, Ismail,2021-06-25 Internet of things IoT is an emerging research field that is rapidly becoming an important part of our everyday lives including home automation smart buildings smart things and more This is due to cheap efficient and wirelessly enabled circuit boards that are enabling the functions of remote sensing actuating decentralization autonomy and other essential functions Moreover with the advancements in embedded artificial intelligence these devices are becoming more self aware and autonomous hence making decisions themselves Current research is devoted to the understanding of how decision support systems are integrated into industrial IoT Decision Support Systems and Industrial IoT in Smart Grid Factories and Cities presents the internet of things and its place during the technological revolution which is taking place now to bring us a better sustainable automated and safer world This book also covers the challenges being faced such as relations and implications of IoT with existing communication and networking technologies applications like practical use case scenarios from the real world including smart cities buildings and grids and topics such as cyber security user privacy data ownership and information handling related to IoT networks Additionally this book focuses on the future applications trends and potential benefits of this new discipline This book is essential for electrical engineers computer engineers researchers in IoT security and smart cities along with practitioners researchers academicians and students interested in all aspects of industrial IoT and its applications **Intelligent Secure Trustable Things** Michael Karner,Johannes Peltola,Michael Jerne,Lukas Kulas,Peter Priller,2024-06-19 This open access book provides an overview about results of the InSecTT project Artificial Intelligence of Things AIoT is the natural evolution for both Artificial Intelligence AI and Internet of Things IoT because they are mutually beneficial AI increases the value of the IoT through machine learning by transforming the data into useful information while the IoT increases the value of AI through connectivity and data exchange Therefore InSecTT Intelligent Secure Trustable Things a pan European effort with over 50 key partners from 12 countries EU and Turkey provides intelligent secure and trustworthy systems for industrial applications to provide comprehensive cost efficient solutions of intelligent end to end secure trustworthy connectivity and interoperability to bring the Internet of Things and Artificial Intelligence together InSecTT creates trust in AI based intelligent systems and solutions as a major part of the AIoT InSecTT fosters cooperation between big industrial players from various domains a number of highly innovative SMEs distributed all over Europe and cutting edge research organizations and universities The project features a big variety of

industry driven use cases embedded into various application domains where Europe is in a leading position i.e smart infrastructure building manufacturing automotive aeronautics railway urban public transport maritime as well as health The demonstration of InSecTT solutions in well known real world environments like airports trains ports and the health sector shows their applicability on both high and broad level going from citizens to European stakeholders The first part of the book provides an introduction into the main topics of the InSecTT project How to bring Internet of Things and Artificial Intelligence together to form the Artificial Intelligence of Things a reference architecture for such kind of systems and how to develop trustworthy ethical AI systems In the second part we show the development of essential technologies for creating trustworthy AIoT systems The third part of the book is composed of a broad variety of examples on how to design develop and validate trustworthy AIoT systems for industrial applications including automotive avionics smart infrastructure health care manufacturing and railway

**Industrial Internet of Things** Sudan Jha, Usman Tariq, Gyanendra Prasad Joshi, Vijender Kumar Solanki, 2022-03-28 Industrial Internet of Things Technologies Design and Applications addresses the complete functional framework workflow in IoT technology It explores basic and high level concepts thus serving as a manual for those in the industry while also helping beginners The book incorporates the working methodology of Industrial IoT works is based on the latest technologies and will cover the major challenges issues and advances while exploring data based intelligent and automated systems and their implications to the real world The book discusses data acquisition security learning intelligent data analysis and case studies related to Industrial IoT based applications

**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

**Mastering Artificial Intelligence for IoT** Larry Writes, 2025-12-29 Unlock the future with Mastering Artificial Intelligence for IoT The Complete Guide to AI Integration Edge Deployment Security and Automation In this groundbreaking book you ll discover how Artificial

Intelligence and the Internet of Things are reshaping industries homes cities healthcare agriculture and beyond Whether you re an entrepreneur engineer developer or tech enthusiast this comprehensive resource will equip you with the tools strategies and insights to thrive in the era of intelligent connectivity From IoT architecture to Edge AI deployment from machine learning models for devices to AI powered predictive maintenance every chapter is packed with real world applications detailed explanations and actionable knowledge designed to help you build scale and secure next generation AIoT systems Learn how to Design intelligent systems that adapt learn and act in real time Optimize data collection preprocessing and real time analytics at the edge Develop lightweight AI models with TinyML and deploy them on microcontrollers Master security privacy and ethical challenges in AI and IoT development Explore the power of blockchain integration with IoT for decentralized systems Apply AI for smart homes industrial IoT IIoT smart cities precision agriculture wearables and more Future proof your projects with Generative AI autonomous systems and cloud edge hybrid architectures Whether you re aiming to create smarter products drive digital transformation in your business or future proof your career Artificial Intelligence for IoT delivers the blueprint for success If you re ready to lead innovate and shape the next era of intelligent systems this book is your starting point Transform ideas into impact Start building the future today

*Industrial Internet of Things Security* Sunil Kumar Chawla, Neha Sharma, Ahmed A. Elngar, Prasenjit Chatterjee, P. Naga Srinivasu, 2024-10-28 The industrial landscape is changing rapidly and so is global society This change is driven by the growing adoption of the Industrial Internet of Things IIoT and artificial intelligence AI technologies IIoT and AI are transforming the way industrial engineering is done enabling new levels of automation productivity and efficiency However as IIoT and AI become more pervasive in the industrial world they also offer new security risks that must be addressed to ensure the reliability and safety of critical systems *Industrial Internet of Things Security Protecting AI Enabled Engineering Systems in Cloud and Edge Environments* provides a comprehensive guide to IIoT security covering topics such as network architecture risk management data security and compliance It addresses the unique security challenges that the cloud and edge environments pose providing practical guidance for securing IIoT networks in these contexts It includes numerous real world case studies and examples providing readers with practical insights into how IIoT security and AI enabled industrial engineering are being implemented in various industries Best practices are emphasized for the readers to ensure the reliability safety and security of their systems while also learning the latest developments in IIoT security for AI enabled industrial engineering systems in this rapidly evolving field By offering step by step guidance for the implantation process along with best practices this book becomes a valuable resource for practitioners and engineers in the areas of industrial engineering IT computer engineering and anyone looking to secure their IIoT network against cyber threats

*Harnessing the Fourth Industrial Revolution*, 2019 ***Maintenance Engineering Handbook, Ninth Edition*** Keith Mobley, 2025-08-22 The most complete and current guide to every aspect of maintenance engineering updated to reflect the latest advances in

the industry The most comprehensive resource of its kind Maintenance Engineering Handbook has long been a staple for engineers managers and technicians seeking current advice on everything from tools and techniques to planning and scheduling Since the last edition was published there have been exponential technology advancements that directly affect maintenance and maintenance engineering function Recent changes in technology especially those of predictive analytics wireless cloud base data acquisition and smart sensors have radically changed the landscape of both engineering and maintenance management This updated edition integrates these advances into a comprehensive approach to maintenance management with proven best practices for maintenance repair and overhaul MRO inventory management root cause analysis and performance management Featuring contributions from noted experts in the field Maintenance Engineering Handbook Ninth Edition will help engineers reduce excessive downtime and high maintenance costs by detecting and mitigating repetitive failures

AI-Driven IoT Systems for Industry 4.0 Deepa Jose,Preethi Nanjundan,Sanchita Paul,Sachi Nandan Mohanty,2024-07-30 The purpose of this book is to discuss the trends and key drivers of Internet of Things IoT and artificial intelligence AI for automation in Industry 4 0 IoT and AI are transforming the industry thus accelerating efficiency and forging a more reliable automated enterprise AI driven IoT systems for Industry 4 0 explore current research to be carried out in the cutting edge areas of AI for advanced analytics integration of industrial IoT IIoT solutions and Edge components automation in cyber physical systems world leading Industry 4 0 frameworks and adaptive supply chains etc A thorough exploration of Industry 4 0 is provided focusing on the challenges of digital transformation and automation It covers digital connectivity sensors and the integration of intelligent thinking and data science Emphasizing the significance of AI the chapter delves into optimal decision making in Industry 4 0 It extensively examines automation and hybrid edge computing architecture highlighting their applications The narrative then shifts to IIoT and edge AI exploring their convergence and the use of edge AI for visual insights in smart factories The book concludes by discussing the role of AI in constructing digital twins speeding up product development lifecycles and offering insights for decision making in smart factories Throughout the emphasis remains on the transformative impact of deep learning and AI in automating and accelerating manufacturing processes within the context of Industry 4 0 This book is intended for undergraduates postgraduates academicians researchers and industry professionals in industrial and computer engineering

## **Ai For Industrial Iot Smart Infrastructure** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Ai For Industrial Iot Smart Infrastructure**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents Ai For Industrial Iot Smart Infrastructure**

1. Understanding the eBook Ai For Industrial Iot Smart Infrastructure
  - The Rise of Digital Reading Ai For Industrial Iot Smart Infrastructure
  - Advantages of eBooks Over Traditional Books
2. Identifying Ai For Industrial Iot Smart Infrastructure
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Ai For Industrial Iot Smart Infrastructure
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ai For Industrial Iot Smart Infrastructure
  - Personalized Recommendations
  - Ai For Industrial Iot Smart Infrastructure User Reviews and Ratings
  - Ai For Industrial Iot Smart Infrastructure and Bestseller Lists

5. Accessing Ai For Industrial Iot Smart Infrastructure Free and Paid eBooks
  - Ai For Industrial Iot Smart Infrastructure Public Domain eBooks
  - Ai For Industrial Iot Smart Infrastructure eBook Subscription Services
  - Ai For Industrial Iot Smart Infrastructure Budget-Friendly Options
6. Navigating Ai For Industrial Iot Smart Infrastructure eBook Formats
  - ePub, PDF, MOBI, and More
  - Ai For Industrial Iot Smart Infrastructure Compatibility with Devices
  - Ai For Industrial Iot Smart Infrastructure Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ai For Industrial Iot Smart Infrastructure
  - Highlighting and Note-Taking Ai For Industrial Iot Smart Infrastructure
  - Interactive Elements Ai For Industrial Iot Smart Infrastructure
8. Staying Engaged with Ai For Industrial Iot Smart Infrastructure
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ai For Industrial Iot Smart Infrastructure
9. Balancing eBooks and Physical Books Ai For Industrial Iot Smart Infrastructure
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ai For Industrial Iot Smart Infrastructure
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Ai For Industrial Iot Smart Infrastructure
  - Setting Reading Goals Ai For Industrial Iot Smart Infrastructure
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ai For Industrial Iot Smart Infrastructure
  - Fact-Checking eBook Content of Ai For Industrial Iot Smart Infrastructure
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

### **Ai For Industrial Iot Smart Infrastructure Introduction**

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