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Nota di contenuto	Cover -- Title -- Copyright -- End User License Agreement -- Contents -- Foreword -- Preface -- List of Contributors -- Digital Twin for Smart Farming -- Galiveeti Poornima1,* , Deepak S. Sakkari1 and Sukruth Gowda M.A.1 -- INTRODUCTION -- TECHNOLOGIES USED IN SMART FARMING -- DEFINITION OF DIGITAL TWIN -- DIGITAL TWIN TYPOLOGY -- DIGITAL TWINS IN FARM MANAGEMENT -- APPLICATION OF DIGITAL TWINS IN SMART FARMING -- USE CASES -- CONCLUSION -- FUTURE SCOPE -- REFERENCES -- Deep Learning Models for Prediction of Disease in Lycopersicum -- Nakatha Arun Kumar1,* and Sathish S. Kumar2 -- INTRODUCTION -- RELATED WORK -- Pretrained Models -- VGGNet -- GoogleNet -- ResNet -- Inception -- Methodology -- RESULTS -- CONCLUDING REMARKS -- REFERENCES -- A Smart Hydroponics System for Sustainable Agriculture -- Supriya Jaiswal1,* , Gopal Rawat1, Chetan Khadse1 and Sohit Sharma1 -- INTRODUCTION -- TYPES OF FARMING -- Hydroponic Farming -- Scope and Challenges -- ADVANTAGES AND LIMITATIONS OF HYDROPOONICS -- GOVERNMENT INITIATIVES AND RECENT RESEARCH TECHNOLOGIES TO SUPPORT FARMING -- COMPONENTS AND STRUCTURE OF SMART HYDROPOONIC FARMING -- Supply System for Automated Water Pumping -- Sensor Network for Smart Farming --

Internet of Hydroponics (IoH): Architecture and Working -- MACHINE LEARNING AND DATA MINING IN HYDROPONICS -- Applications of Machine Learning -- Challenges Faced in Machine Learning -- Use Cases of ML in Hydroponics -- Future Area of Research in Hydroponics -- CONCLUDING REMARKS -- REFERENCES -- Agriculture Robotics -- Bogala Mallikharjuna Reddy1, * -- INTRODUCTION -- AUTOMATION OF FARMING -- PRECISION AGRICULTURE ROBOTICS -- IOT-BASED SMART AGRICULTURE -- ROBOTICS IN AGRICULTURE -- Classification of Robots -- Agriculture Robotics Evolution -- Cooperative Agricultural Robotics -- APPLICATIONS OF AGRICULTURE ROBOTICS -- Farmland Preparation.

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Sommario/riassunto

Data Science for Agricultural Innovation and Productivity explores the transformation of agriculture through data-driven practices. This comprehensive book delves into the intersection of data science and farming, offering insights into the potential of big data analytics, machine learning, and IoT integration. Readers will find a wide range of topics covered in 10 chapters, including smart farming, AI applications, hydroponics, and robotics. Expert contributors, including researchers, practitioners, and academics in the fields of data science and agriculture, share their knowledge to provide readers with up-to-date insights and practical applications. The interdisciplinary emphasis of the book gives a well-rounded view of the subject. With real-world examples and case studies, this book demonstrates how data science is being successfully applied in agriculture, inspiring readers to explore new possibilities and contribute to the ongoing transformation of the agricultural sector. Sustainability and future outlook are the key themes, as the book explores how data science can promote environmentally conscious agricultural practices while addressing global food security concerns. Key Features: Focus on data-driven agricultural practices Comprehensive coverage of modern farming topics with an interdisciplinary perspective Expert insights Sustainability and future outlook Highlights practical applications Data Science for Agricultural Innovation and Productivity is an essential resource for researchers, data scientists, farmers, agricultural technologists, students, educators, and anyone with an interest in the future of farming through data-driven agriculture. Readership Researchers, data scientists, farmers, agricultural technologists, students, educators, and general readers.

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