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Nota di contenuto	1. A Novel Approach for Multi class Brain Tumor Classification in MRI Images -- 2. Chicken Swarm-based Feature Selection with Optimal Deep Belief Network for Thyroid Cancer Detection and Classification -- 3. Efficient Method for Predicting Thyroid Disease Classification Using Support Vector Machine Compared Over Logistic Regression -- 4. Optimization of Management Response Towards Airborne Infections -- 5. Adaptive Sailfish Optimization- Contrast Limited Adaptive Histogram Equalization (ASFO-CLAHE) For Hyperparameter Tuning in Image Enhancement -- 6. Efficient Method for Predicting Thyroid Disease Classification Using Convolutional Neural Network Compared Over Support Vector Machine -- 7. Deep Learning in Healthcare Informatics -- 8. Detection of Breast Cancer Diagnosis Algorithm Based On TWCNN Technique -- 9. Internet of Things (IoT) and Artificial Intelligence (AI) to detect Urinary Tract Infections -- 10. Early Detection and Analysis of

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Sommario/riassunto

This book contains multidisciplinary advancements in healthcare and technology through artificial intelligence (AI). The topics are crafted in such a way to cover all the areas of healthcare that require AI for further development. Some of the topics that contain algorithms and techniques are explained with the help of source code developed by the chapter contributors. The book covers the advancements in AI and healthcare from the Covid 19 pandemic and also analyzes the readiness

and need for advancements in managing yet another pandemic in the future. Most of the technologies addressed in this book are added with a concept of encapsulation to obtain a cookbook for anyone who needs to reskill or upskill themselves in order to contribute to an advancement in the field. This book benefits students, professionals, and anyone from any background to learn about digital disruptions in healthcare. Contains multidisciplinary advancements in healthcare and technology through artificial intelligence; Studies advancements in technology during Covid and assesses the readiness and need for advancements in managing future crises; Includes source code developed for topics which contain algorithms.