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Disease Prediction Using Machine Learning A Comprehensive Study -- Performance Evaluation of Different Deep Learning Models for Automatic Yoga Pose Classification -- Recognizing Human Activities in Ambient Assisted Environment from Wearable Sensor Data Using Gramian Angular Field and Deep CNN -- Detection of Hepatocellular Carcinoma Using Machine Learning and Small Set of Clinical Features -- Enhancing Patient Data Clustering in Smart Healthcare A Semi Supervised Approach for Person Centric HealthCare Treatment and Resource Optimization -- Case study to role of Large language models in prediction of the future illness -- Person Centric Care for Alzheimer's Patients A Multi Criteria Decision Support Framework for Activity Recognition.

Sommario/riassunto

This book focuses more on the transformative impact of person-centric health care, where it explores cutting-edge advancements in integrating artificial intelligence and machine learning to deliver personalized and efficient care. Key topics include the application of predictive models for critical health conditions such as brain stroke, lung cancer, diabetes, and Alzheimer's, as well as the integration of secure frameworks to protect sensitive patient data. The book also covers advanced techniques for recognizing human activities in ambient environments, optimizing patient data clustering, and evaluating deep learning methods for unique use cases like yoga pose classification and resource optimization in smart healthcare. Designed for healthcare professionals, researchers, data scientists, and technologists, this book presents a harmonious blend of technical insights and practical applications, emphasizing person-centric approaches. By focusing on multi-disease prediction, assistive technologies, and enhanced emergency management, this book serves as a vital resource for innovating healthcare delivery in smart environments.