# AI-Driven Alzheimer's Disease Detection and Prediction

Part of the Advances in Medical Technologies and Clinical Practice Book Series

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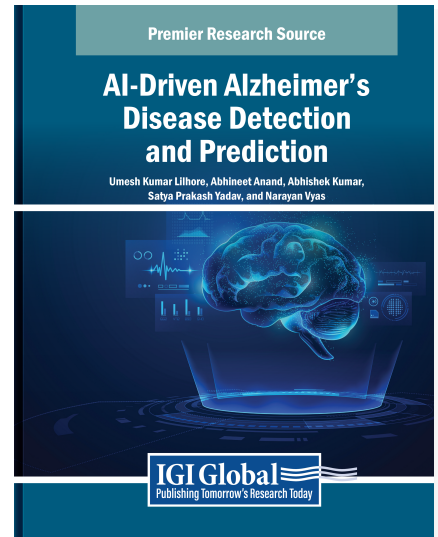
Description:

Alzheimer's disease (AD) poses a significant global health challenge, with an estimated 50 million people affected worldwide and no known cure. Traditional methods of diagnosis and prediction often rely on subjective assessments. They are limited in detecting the disease early, leading to delayed intervention and poorer patient outcomes. Additionally, the complexity of AD, with its multifactorial etiology and diverse clinical manifestations, requires a multidisciplinary approach for effective management.

AI-Driven Alzheimer's Disease Detection and Prediction offers a groundbreaking solution by leveraging advanced artificial intelligence (AI) techniques to enhance early diagnosis and prediction of AD. This edited book provides a comprehensive overview of state-of-the-art research, methodologies, and applications at the intersection of AI and AD detection. By bridging the gap between traditional diagnostic methods and cutting-edge technology, this book facilitates knowledge exchange, fosters interdisciplinary collaboration, and contributes to innovative solutions for AD management.

It also benefits data scientists, engineers, policymakers, and professionals in the pharmaceutical and biotechnology industries. Graduate students interested in healthcare and technology will find accessible information on the latest developments in AI-driven approaches to AD detection and prediction.

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Topics Covered:

- Alzheimer's Disease
- Artificial Intelligence
- Biomarkers
- Clinical Integration
- Cognitive Assessment
- Data Collection
- Drug Discovery
- Ethical Considerations
- Genetic Risk Factors
- Global Initiatives
- Machine Learning
- Neurodegeneration Prediction
- Neuroimaging
- Patient-Centered Solutions
- Privacy Considerations

Subject: Medicine & Healthcare

Readership Level: Advanced-Academic Level (Research Recommended)

Classification: Edited Reference

Research Suitable for: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners

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