Encyclopedia of

Modern Artificial Intelligence

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IGI Global
Scientific Publishing
Publishing Tomorrow's Research Today

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Volume I

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Vice President of Editorial: Melissa Wagner
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Cover Design: Jose Rosado

Published in the United States of America by
IGI Global Scientific Publishing
701 East Chocolate Avenue
Hershey, PA, 17033, USA
Tel: 717-533-8845 | Fax: 717-533-7115
Website: https://www.igi-global.com E-mail: cust@igi-global.com

Library of Congress Cataloging-in-Publication Data

Library of Congress Cataloging-in-Publication Data

Names: Khosrow-Pour, Mehdi, 1951- editor.
Title: Encyclopedia of modern Artificial Intelligence / edited by Mehdi Khosrow-Pour.
Description: Hershey, PA : IGI Global Scientific Publishing, [2027] | Includes bibliographical references and index. | Summary: "This encyclopedia offers a holistic understanding of AI concepts and provides pivotal insights on recent research and developments related to AI"-- Provided by publisher.
Identifiers: LCCN 2025005816 (print) | LCCN 2025005817 (ebook) | ISBN 9798369356388 (hardback) | ISBN 9798369356395 (ebook)
Subjects: LCSH: Artificial intelligence.
Classification: LCC Q335.5 .E655 2026 (print) | LCC Q335.5 (ebook) | DDC 006.3--dc23/eng/20250624
LC record available at https://lccn.loc.gov/2025005816
LC ebook record available at https://lccn.loc.gov/2025005817

British Cataloguing in Publication Data
A Cataloguing in Publication record for this book is available from the British Library.

Chapter 89
Artificial Intelligence Towards Health Care and Its Role in Diagnostics and Treatment

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ABSTRACT

Artificial intelligence (AI) has rapidly expanded across several industries in recent years, with the healthcare sector emerging as a key area due to its revolutionary potential. This technological innovation has the probable to revolutionize patient care and administrative procedures by leveraging large longitudinal patient data. AI is a powerful and cutting-edge area of computer science that has the potential to change healthcare delivery and medical practice fundamentally. This article explains evolution and application of AI in healthcare, analyzes the possible challenges and benefits AI-augmented healthcare systems, and lays out a future plan for developing successful, reliable, and safe AI systems. AI can support a variety of decision-making processes, including public health surveillance and communication. It can also boost productivity in routine public health duties. Fundamental problems with worker skills, accountability, data protection, equity, and the need for robust digital infrastructures are impeding its widespread adoption.

INTRODUCTION

Artificial intelligence has enormous, extraordinary digital power that is affecting the entire Indian nation. Additionally, it alters the way healthcare workers think about their jobs and boosts their morale by making them feel satisfied with their jobs. In the digital healthcare sector, healthcare departments like

DOI: 10.4018/979-8-3693-5638-8.ch089