

AI for Everyone: Fundamentals

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2023

Dnyanopasak Shikshan Mandal's
Arts, Commerce & Science College,
Jintur
Publication


Co-ordinator
IQAC

Shri Guru Buddhiswami Mahavidyalaya
Purna (Jn) Dist. Parbhani - 431511 (M.S.)



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Published by

Dnyanopasak Shikshan Mandal's Arts, Commerce & Science College, Jintur
Dyangiri Campus, Yeldari Road, JINTUR – 431 509 Dist. Parbhani (Maharashtra) India

ISBN: 978-81-957387-3-1

Cover Design: Param Ramesh Parsewar, Student, Pursuing B. Tech in Computer Science and Engineering, IIT (BHU), Varanasi

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First Edition: 2023

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Overview:

Contents			
Sr. No	Particulars	--	Page Nos.
1	About the Authors	--	v - vi
2	Acknowledgment	--	vii
3	Preface	--	viii
4	Disclaimer	--	ix
5	Table of Contents	--	2
List of Chapters with Author & Page Numbers			
Sr. No	Title of the Chapter	Author	Page Nos.
1	Introduction to Artificial Intelligence (AI): Significance, Historical Overview & Evolution	Rachana Ramesh Parsewar Shireeshkumar S. Rudrawar	9 - 18
2	Artificial Intelligence: Types, Applications, Challenges & Opportunities	Rachana Ramesh Parsewar	19 - 27
3	Machine Learning (ML)	Rachana Ramesh Parsewar	28 - 42
4	Deep Learning (DL)	Rachana Ramesh Parsewar	43 - 52
5	Natural Language Processing and Understanding	Param Ramesh Parsewar	53 - 69
6	Historical Overview and Evolution of AI	Dr. Bhasker. G. Koshidgewar	70 - 74
7	Types Of AI Systems and Applications	Dr. Bhasker. G. Koshidgewar	75 - 81
8	A Brief Overview of Artificial intelligence (AI)	Mr. Gopal D. Kanade	82 - 87
9	AI and its Significance in the Modern World	Shireeshkumar S. Rudrawar Nayana S. Ratnaparkhi	88 - 98
10	Introduction to Artificial Intelligence (AI)	Dr. Kurundkar Gajanan D.	99 - 107
11	Artificial Intelligence - Latest Advances and Novel Applications	Dr. Suresh D. Dhage	108 - 111
12	Risks and Benefits of Artificial Intelligence	Dr. Shivshankar N. Hallale	112 - 117
13	AI in Everyday Life	Miss Rekha Chaurasia	118 - 129
14	Artificial Intelligence in Everyday Life	Bhise Gajendra G.	130 - 137
15	AI at Your Fingertips: How Artificial Intelligence Transforms Everyday Living	Renuka R Londhe Pooja Laturiya	138 - 141
16	The Concepts of Machine Learning Algorithms	Dr. Mrs. Sangita Modi Mrs. Sujata Shahabade	142 - 153
17	Machine Learning Concept, Algorithms and Applications	Pranita D. Sherkhane Nayana S. Ratnaparkhi Shireeshkumar S. Rudrawar	154 - 168
18	Deep Learning: Concept of Neural Networks	Dr. Suresh D. Dhage	169 - 173

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Chapter 10: Introduction to Artificial Intelligence (AI)

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Definition of AI:

Artificial Intelligence refers to the development of intelligent machines that can perform tasks that typically require human intelligence. It is a branch of computer science that aims to create computer systems capable of simulating human perceptive processes, such as reasoning, problem-solving, perception, learning, and decision-making.

AI systems are designed to analyse and interpret large amounts of data, recognize patterns and correlations, and make predictions or take actions based on that information. They often employ algorithms and models to process data, learn from experience, and improve their performance over time.

AI encompasses various subfields, including Machine Learning, which involves training algorithms on data to make predictions or decisions without explicit programming, and Deep Learning, which utilizes artificial neural networks to process complex data.

Introduction to AI:

Introduction to AI which will help you to understand the concepts behind Artificial Intelligence.[1]. Artificial Intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to perform tasks that would typically require human intelligence. AI enables machines to analyse, interpret, and understand information, make decisions, and learn from experiences.

There are two primary types of AI:

Narrow AI and 2. General AI:

Narrow AI: Narrow AI, also known as Weak AI, is designed to perform specific tasks within a defined scope. Examples of narrow AI include voice assistants like Siri and Alexa, image recognition software, and recommendation algorithms used by online platforms.

General AI: General AI, also known as Strong AI, aims to replicate human-level intelligence and possess the ability to understand and perform any intellectual task that a human being can do.

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