

AI for Everyone: Fundamentals

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2023

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

Publication

*Co-ordinator
IQAC*

*Shri Guru Buddhswami 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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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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