

INFORMATION TECHNOLOGY







- 😭 Multiple Choice Questions.
- Concepts cleared with diagrams and examples.

Strictly as per the New Syllabus (REV-2019 'C' Scheme) of Mumbai University w.e.f. academic year 2022-2023

COMPULSORY SUBJECT (Course Code : ITC701)



Artificial Intelligence & Data Science - II (Al and DS - II)

Dr. Nilesh M. Patil

(D. J. Sanghvi College of Engineering, Vile Parle, Mumbai)

Mrs. Anagha J. Patil

Dept.

(Vidvavardhini's College of Engineering and Technology, Vasai Rd)

Prof. Baphana R. M.

Adjunct Faculty at C.O.E.P. (Pune) Teaching Ph. D & M. Tech Students (Artificial Intelligence & Robotics) INFT

Dept. of Information Technology Vidyavardhini's College of Engineering and Technology. Vasai Road 4rd 202.





- www.techneobooks.in
- info@techneobooks.in



University of Mumbai

AI and DS -II

(Course Code: ITC701)

Semester VII - Information Technology

Strictly as per the New Syllabus (REV-2019 'C' Scheme) of Mumbai University w.e.f. academic year 2022-2023

Dr. Nilesh M. Patil

Ph.D. (Computer Engineering)

Associate Professor, Computer Engg. Department,

SVKM's D J Sanghvi College of Engineering,

Mumbai

Mrs. Anagha J. Patil

M.E. (Computer Engineering)

Department of Information Technology

Vidyavardhini's College of Engineering & Technology

Vasai Road (West), Palghar

Prof. R. M. Baphana

Adjunct Faculty,

Government College of Engineering, Pune (C.O.E.P)

(Teaching M. Tech & Ph. D students)







Al and DS - II

(Course Code: ITC701)

(MU - Semester 7 / Information Technology

- For New Syll, 2022-2023)

Authors: Dr. Nilesh M. Patil, Mrs. Anagha J. Patil,

Prof. R. M. Baphana

First Edition for New Syllabus: July 2022

Tech-Neo ID: M7-62

ISBN: 978-93-5583-098-2

Copyright © by Authors. All rights reserved.

No part of this publication may be reproduced, copied, or stored in a retrieval system, distributed or transmitted in any form or by any means, including photocopy, recording, or other electronic or mechanical methods, without the prior written permission of the Publisher.

This book is sold subject to the condition that it shall not, by the way of trade or otherwise, be lent, resold, hired out, or otherwise circulated without the publisher's prior written consent in any form of binding or cover other than which it is published and without a similar condition including this condition being imposed on the subsequent purchaser and without limiting the rights under copyright reserved above.

Published by

Mrs. Nayana Shah, Mr. Sachin S. Shah

Managing Director, B. E (Industrial Electronics)

An Alumunus of IIM Ahmedabad

& Mr. Rahul S. Shah

Permanent Address

Tech-Neo Publications LLP

Sr. No. 38/1, Behind Pari Company, Khedekar Industrial Estate, Narhe, Maharashtra,

Pune-411041.

Email: info@techneobooks.com
Website: www.techneobooks.com

Printed at : Image Offset (Mr. Rahul Shah)

Dugane Ind. Area, Survey No. 28/25, Dhayari Near Pari Company, Pune - 411041. Maharashira State, India.

Dept.

E-mail: rahulshahimage@gmail.com

About Managing Director....

- Mr. Sachin Shah

Over 25 years of experience in Academic Publishing...

With over two and a half decades of experience in bringing out more than 1200 titles in Engineering, Polytechnic, Pharmacy, Computer Sciences and Information Technology,

Sachin Shah is a name synonymous with quality and innovative content.

A driven Educationalist...

- A B.E. in Industrial Electronics (1992 Batch) from Bharati Vidyapeeth's College of Engineering, affiliated to University of Pune.
- 2. An Alumnus of IIM Ahmedabad.
- A Co-Author of a bestselling book on "Engineering Mathematics" for Polytechnic Students of Maharashtra State.
- Sachin has for over a decade, been working as a Consultant for Higher Education in USA and several other countries.

With path-breaking career...

A publishing career that started with handwritten cyclostyled notes back in 1992.

Sachin Shah has to his credit setting up and expansion of one of the leading companies in higher education publishing.

An experienced professional and an expert...

An energetic, creative & resourceful professional Sachin Shah's extensive experience of closely working with the best & the most eminent authors of Publishing Industry, ensures high standards of quality in contents.

This ability has helped students to attain better understanding and in-depth knowledge of the subject.

A visionary...

A gregarious person, **SACHIN SHAH** is a thought leader who has been simplifying the methods of learning and bridging the gap between the best authors in the publishing industry and the student community for decades.

Technology

Vidyavardhini's College of Engineering and Technology Vasai Road 401 202.