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Vol.12. issue.14 17.12.2024

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IGNITE 2024

IGNITE 2024

IGNITE 2024

★ ★ ★ *December* ★ ★ ★

A DAILY NEWSLETTER
17.12.2024

Agni College of Technology

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R. D. Indhuja (EEE), a I-year student from the Department of Science and Humanities, has successfully completed the certificate course on “**Digital 101 Journey**” provided by IT-ITeS SSC NASSCOM, futureskills Prime with AICTE in the month of December 2024.

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Home > Computer Science > Computer Engineering > Recent Advances in Computing Sciences > An Efficient Prediction of Algorithms



Chapter

An Efficient Prediction of Hepatocellular Carcinoma by Using Machine Learning Algorithms

By *M. Revathi, S. Ohmshankar, D. Maheswari, R. Nithiya*

Book [Recent Advances in Computing Sciences](#)

Edition	1st Edition
First Published	2025
Imprint	CRC Press
Pages	3
eBook ISBN	9781003570349



Mr. S. Ohm Shankar and Ms. D. Maheswari, Assistant Professor, has published a book chapter titled **“An efficient prediction of hepatocellular carcinoma by using machine learning algorithms”** published by CRC Press, Taylor and Francis, 2024, ISBN No. 9781003570349.

Database design, the art and science of structuring data to meet specific needs, is a cornerstone of efficient and reliable information systems. A well-designed database not only ensures data integrity and consistency but also optimizes performance and scalability. This comprehensive guide delves into the essential principles and techniques for designing robust and effective databases.

We will explore the fundamental concepts of data modeling, normalization, indexing, and query optimization, providing practical insights and real-world examples to empower developers and data analysts. By mastering these core principles, you will be equipped to create databases that are not only functional but also adaptable to evolving business requirements.

By mastering these fundamental concepts, practitioners can build databases that are not only functional but also adaptable to evolving business needs, ensuring seamless data management and insightful analysis.

DATABASE DESIGN ESSENTIALS



Ishwarya M.V.
Sharmila L.
Ajitha P.R.

Dr.Ishwarya M.V is working as Associate Professor and HOD in AIDS Dept in Agni College of Technology

Dr.L.Sharmila is working as Professor in CSE Dept in Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology

P.R.Ajitha is working as Assistant Professor in AIDS Dept in Dhanalakshmi Srinivasan college of engineering and technology.



**DATABASE DESIGN
ESSENTIALS: A PRACTICAL
GUIDE FOR DEVELOPERS
AND DATA ANALYSTS**

Ishwarya M.V., Sharmila L., Ajitha P.R.



Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science, has published the book titled **“Database Design Essentials: A Practical Guide for Developers and Data Analysts”** by International Lambert Academic Publishing with ISBN: **978-620-95345-8** on **16.12.2024**

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More Books!

Language

Currency

Fiction (3485)

Children and Youth books (405)

Humanities, Art, Music (359348)

Natural-, Medical-, Computer Sciences, Technology (545343)

Social sciences, law, economics (290006)

School and learning (331)

Specialized book (42048)

Travel (106)

Councillor (224839)

Translation Bundle Deal

Congratulations! Your book "THE ALGORITHMIC MIND: HOW MACHINES LEARN TO THINK" is now available in 6 new languages. Get your copy in each language and save 30%

11 Days

14 Hours

52 Minutes

LA MENTE ALGORITMICA: COMO LAS MAQUINAS APRENEN A PENSAR

978-620-8-32158-1

LA MENTE ALGORITMICA: COMO LAS MAQUINAS APRENEN A PENSAR

Ishwarya M. V.,
Ajitha P. R.,
Nithya M.

€60.90

€42.63

Info

Details

Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science, has published the book titled **“THE ALGORITHMIC MIND: HOW MACHINES LEARN TO THINK”** which is now available in 6 new languages.

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Translation Bundle Deal

Fiction (3485)

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Social sciences, law, economics (290006)

School and learning (331)

Specialized book (42048)

Travel (106)

Councillor (224839)



0 Days

0 Hours

0 Minutes

BAUSTEINE VON BETRIEBSSYSTEMEN: A UMFASSENDE ÜBERSICHT

978-620-8-28204-2



~~€60.90~~
€42.63



Info

Details

Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science, has published the book titled **“BUILDING BLOCKS OF OPERATING SYSTEMS: A COMPREHENSIVE OVERVIEW”**, which is now available in 6 new languages.



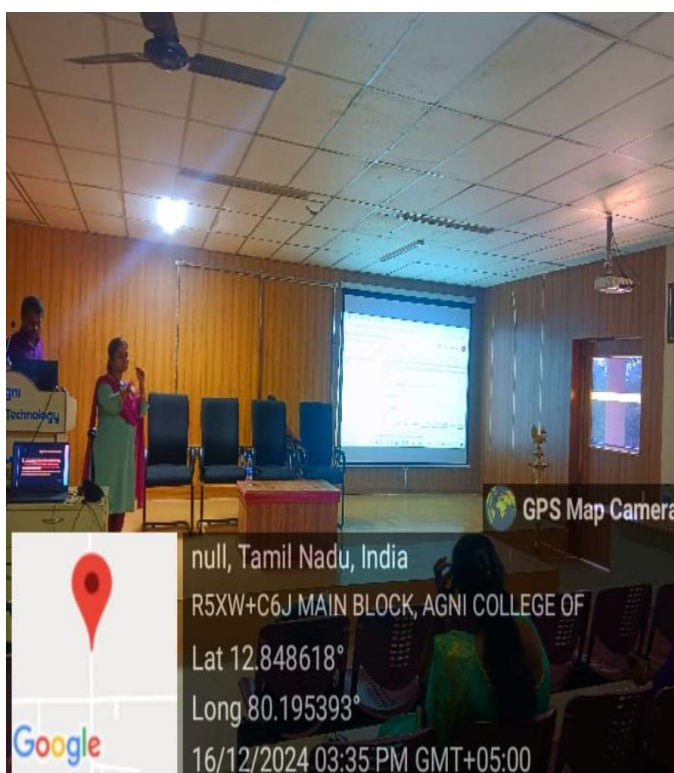
Dr. Arularasan R, Assistant Professor from the Mechatronics Department, has been recognized as an **NPTEL ENTHUSIAST** by the NPTEL Team for successfully completing 8 exams on **NPTEL** during the period from January 2023 to December 2024.



Mr. Srinivasan T, Assistant Professor from the Mechatronics Department, has been recognized as an NPTEL DISCIPLINE STAR for successfully completing 7 courses in the same discipline (MECHANICAL ENGINEERING), completing more than 50 weeks of learning, and achieving a final score of 55 or more in each subject.

Resource Person Sessions will be handled by eminent persons from reputed institutions/industries. How to apply? The applicants should register at AICTE-ATAL web portal at the earliest. Website: http://www.aicte-india-org/atal		DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE SIX DAYS FACULTY DEVELOPMENT PROGRAM ON "AI IN IOT : ENHANCING THE POWER OF SMART GADGETS" 16.12.2024 to 21.12.2024	About the college Agni College of Technology Chennai was established in the year 2001 by Sri Balaji Charitable and Educational Trust with the objective of producing high quality engineers and technocrats. The Engineering college is approved by AICTE, New Delhi, Affiliated to Anna University Chennai. Accredited by National Board of Accreditation, New Delhi and an ISO 9001:2015 Certified Institution. We are ranked in 25th position among 325+ colleges by Anna University in the Nov/Dec 2022 examinations. Also, we were ranked in the top 101-150 band in the India Rankings 2023 by National Institutional Ranking Framework, Ministry of Education, Government of India. Also, all eligible programs are accredited by the National Board of Accreditation and the institution is rated with A+ grade in the National Assessment and Accreditation Council. We look forward to soon becoming an autonomous institution and we have been taking various initiatives to improve the quality and standard of technical education on par with international standards so that our students are able to compete with other students.	Intensive inputs in machine learning and big data analytics. By the end of this course, the students will gain cross-disciplinary skills across fields such as statistics, computer science, machine learning, and logic, data scientists and will have career opportunities in healthcare, business, eCommerce, social networking companies, climatology, biotechnology, genetics, and other essential areas. The central focus of this programme is to equip students with statistical, mathematical reasoning, machine learning, knowledge discovery, and visualization skills.	increase the effectiveness and precision of IoT systems. Large volumes of data produced by Internet of Things (IoT) devices can be processed by AI algorithms to provide insightful analysis and wise decision-making. Because AI improves the accuracy and efficiency of IoT devices and is constantly learning and adapting to changing environments, it also aids in task automation, pattern recognition, and issue detection in IoT systems.
ELIGIBILITY AND SELECTION Faculty members from AICTE approved Engineering Colleges can apply. Selection is on "first come first serve" basis. Selection will be intimated through mail and selected participants should confirm their participation. REGISTRATION: - No registration Fee - TA/DA will not be provided - Selected participants should attend the programs for the entire duration through offline mode	ORGANIZING COMMITTEE Patron Dr. SRINIVASAN ALAVANDAR PRINCIPAL Agni College Of Technology, Thalambur Co-ordinator Dr. Ishwarya M.V B.E., M.E., Ph.D Associate Professor and Head Of the Department Artificial Intelligence and Data Science Department, Agni College of Technology, Thalambur MAIL ID : siddha@atcl.edu.in Co-Coordinator Mrs. T. Geetha Assistant Professor Artificial Intelligence and Data Science, Agni College of Technology, Thalambur	Sponsored by AICTE Training and Learning (ATAL) Academy	DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE The Artificial Intelligence and Data Science department was founded in 2020 with one undergraduate program affiliated with Anna University approved by AICTE. This course aims to provide the core technologies such as artificial intelligence, data mining, and data modelling and give	FDP THEME The creation of computer systems that are capable of doing tasks that normally require human intelligence, like speech recognition, problem-solving, and decision-making, is known as Artificial Intelligence (AI). The network of actual physical objects and other things integrated with sensors, software, and connections that allow them to gather and share data is known as the Internet of Things, or IoT. The potential of AI and IoT to boost productivity, increase efficiency, and offer more individualised experiences across a wide range of businesses has led to their increasing appeal. AI and IoT will play an increasingly larger role in our daily lives and businesses as technology develops.	TOPICS COVERED - Overview and Use of the Internet of Things - Artificial Intelligence (AI): Prospects, Development and Challenges - IoT Architectures and Protocols - Applied AI and Data Science - An overview of machine learning and its use in the analysis of medical images - Smart Sensor Utilisation in IoT - Smart Cities & Homes: IOT Technology - AI Implementation (Workshop) - IoT Privacy and Security - IoT using Arduino and Raspberry Pi (Practical Session)
Address for Communication : The co-ordinator FDP DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE Agni College Of Technology-AICTE old madhavabalan road Thalambur, chennai-60130,Tamil Nadu,India. E-MAIL: siddha@atcl.edu.in		Agni College of Technology AN A+ GRADED AUTONOMOUS INSTITUTION 091221 24081 04490 24081 www.aatcl.edu.in			

The Department of AIDS from Agni College of Technology, in collaboration with the **AICTE ATAL Academy**, is organizing a 6-day Faculty Development Program on "AI in IoT: Enhancing the Power of Smart Gadgets" from 16.12.2024 to 21.12.2024. The program is coordinated by **Dr. Ishwarya M.V., Associate Professor and Head of the Department, AIDS**, and **Mrs. T. Geetha, Assistant Professor, AIDS**. On the 1st day of FDP, the Resource person, **Dr. Chinnasamy. A, Associate Professor, SRMIST**, delivered an insightful session on **"Applied AI and Data Science"** from 1.00 pm – 4 pm on 16.12.2024.



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Resource Person

Sessions will be handled by eminent persons from reputed institutions/industries.

How to apply?

The applicants should register at AICTE-ATAL web portal at the earliest.
Website: <http://www.aicte-india-org/atal>

ELIGIBILITY AND SELECTION

Faculty members from AICTE approved Engineering Colleges can apply. Selection is on "first come first serve" basis. Selection will be intimated through mail and selected participants should confirm their participation.

REGISTRATION:

- No registration Fee
- TA/DA will not be provided
- Selected participants should attend the programs for the entire duration through offline mode

Address for Communication:

The co-ordinator
FDP
DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE
Agni College Of Technology, AICTE
old mahalapuram road, Thiruvallur,
chennai-600 33 Tamil Nadu, India.
E-MAIL: adshd@atcl.edu.in



ORGANIZING COMMITTEE

Patron
Dr. SRINIVASAN ALAVANDAR
PRINCIPAL,
Agni College Of Technology,
Thiruvallur.

Co-ordinator
Dr. Ishwarya M.V. B.E., M.E., Ph.D
Associate Professor and Head of the Department,
Artificial Intelligence and Data Science Department,
Agni College Of Technology,
Thiruvallur.
MAIL ID: adshd@atcl.edu.in

Co-Coordinator
Mrs. T. Geetha
Assistant Professor,
Artificial Intelligence and Data Science,
Agni College of Technology,
Thiruvallur.

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

SIX DAYS

FACULTY DEVELOPMENT PROGRAM ON

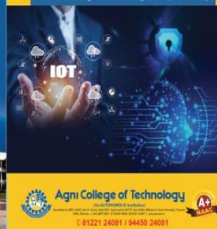
"AI IN IOT : ENHANCING THE POWER OF SMART GADGETS"

16.12.2024 to 21.12.2024

Sponsored by



AICTE Training and Learning (ATAL) Academy



Agni College of Technology

0 8221 24051 | 94450 24051

Thiruvallur, Tamil Nadu

About the college

Agni College of Technology Chennai was established in the year 2001 by Sri Balaji Charitable and Educational Trust with the objective of producing high quality engineers and technocrats. The Engineering college is approved by AICTE, New Delhi, Affiliated to Anna University Chennai, Accredited by National Board of Accreditation, New Delhi and an ISO 9001:2015 Certified Institution. We are ranked in 25th position among 325+ colleges by Anna University in the Nov-Dec 2022 examinations. Also, we were ranked in the top 101-150 band in the India Rankings 2023 by National Institutional Ranking Framework, Ministry of Education, Government of India. Also, all eligible programs are accredited by the National Board of Accreditation and the institution is rated with A+ grade in the National Assessment and Accreditation Council. We look forward to soon becoming an autonomous institution and we have been taking various initiatives to improve the quality and standard of technical education on par with international standards so that our students are able to compete with other students.

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

The Artificial Intelligence and Data Science department were founded in 2020 with one undergraduate program affiliated with Anna University, approved by AICTE. This course aims to provide the core technologies such as artificial intelligence, data mining, and data modelling and give

intensive inputs in machine learning and big data analytics. By the end of this course, the students will gain cross-disciplinary skills across fields such as statistics, computer science, machine learning, and logic, data scientists and will have career opportunities in healthcare, business, eCommerce, social networking companies, climatology, biotechnology, genetics, and other essential areas. The central focus of this programme is to equip students with statistical, mathematical reasoning, machine learning, knowledge discovery, and visualization skills.

FDP THEME

The creation of computer systems that are capable of doing tasks that normally require human intelligence, like speech recognition, problem-solving and decision-making, is known as Artificial Intelligence (AI). The network of actual physical objects and other things integrated with sensors, software, and connections that allow them to gather and share data is known as the Internet of Things, or IoT. The potential of AI and IoT to boost productivity, increase efficiency, and offer more individualized experiences across a wide range of businesses has led to their increasing appeal. AI and IoT will play an increasingly larger role in our daily lives and businesses as technology develops.

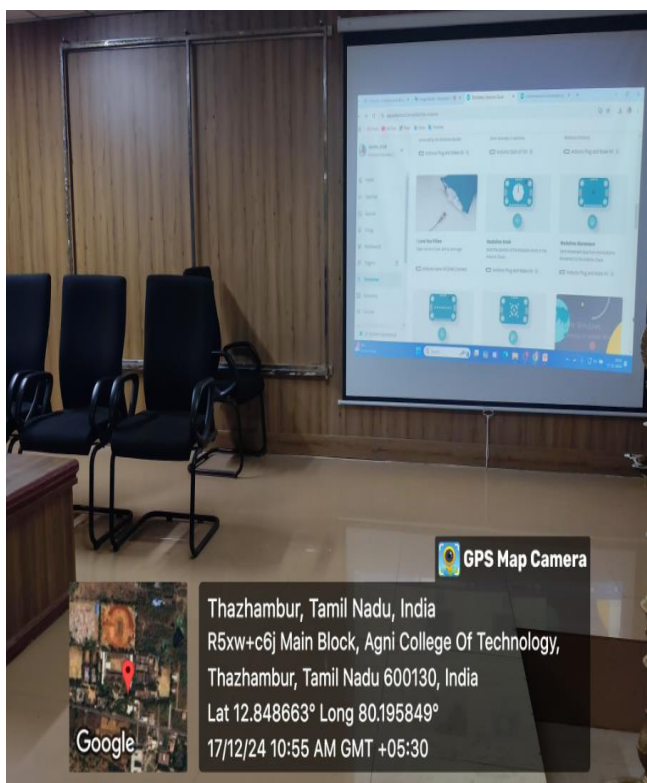
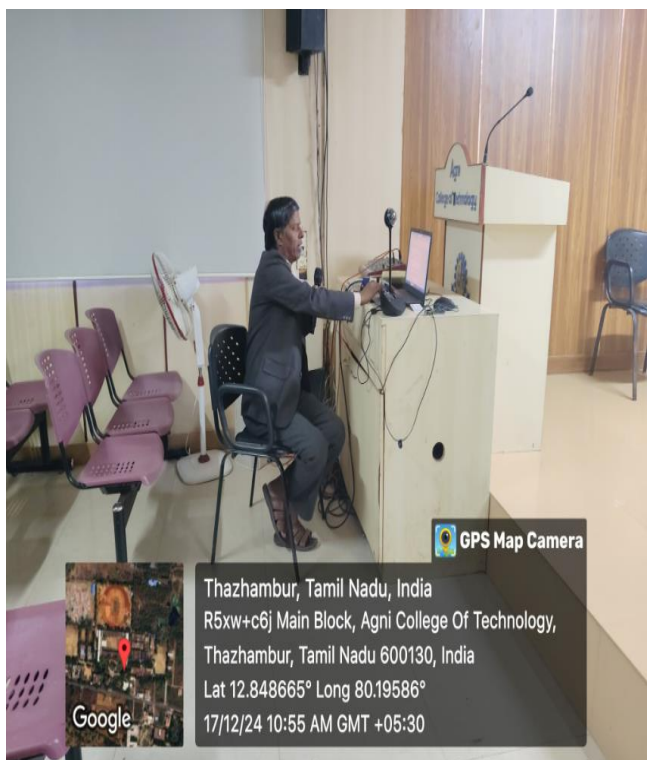
Artificial Intelligence (AI) is critical to the Internet of Things (IoT) because it allows devices to gather and process data in real-time, facilitating intelligent decision-making, task automation, pattern recognition, and issue detection, all of which

increase the effectiveness and precision of IoT systems. Large volumes of data produced by Internet of Things (IoT) devices can be processed by AI algorithms to provide insightful analysis and wise decision-making. Because AI improves the accuracy and efficiency of IoT devices and is constantly learning and adapting to changing environments, it also aids in task automation, pattern recognition, and issue detection in IoT systems.

TOPICS COVERED

- Overview and Use of the Internet of Things
- Artificial Intelligence (AI): Prospects, Development and Challenges
- IoT Architectures and Protocols
- Applied AI and Data Science
- An overview of machine learning and its use in the analysis of medical images
- Smart Sensor Utilisation in IOT
- Smart Cities & Homes: IOT Technology
- AI Implementation (Workshop)
- IoT Privacy and Security
- IoT using Arduino and Raspberry Pi (Practical Session)

The Department of AIDS, in collaboration with the AICTE ATAL Academy, is organizing a 6-day Faculty Development Program on "AI in IoT: Enhancing the Power of Smart Gadgets" from 16.12.2024 to 21.12.2024. The program is coordinated by Dr. Ishwarya M.V., Associate Professor and Head of the Department, AIDS, and Mrs. T. Geetha, Assistant Professor, AIDS. On the 2nd day of FDP, the Resource person, Dr. UdhayaKumar. G. S, Associate Professor, St. Joseph Institute of Technology has delivered an insightful session on "Artificial Intelligence: Prospects, Development and Challenges" from 8.30 am – 11 am on 17.12.2024.



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Dr. P. Murugan, Head of the Department and Dr. E. Yuvanashree, Assistant Professor, Department of Chemical Engineering had a meeting with parents of Second Year Chemical Engineering students on 17th December 2024. The meeting focused on student's academic performance, attendance, and behavior.



MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



Certificate of Participation

This is to certify that Mr. K. BALAJI SUNDHARAM of
Agni College of Technology

has participated in a Six day online National FDP on "Advanced Computational and Experimental Research
in Physics" held from 09.12.2024 to 14.12.2024 conducted by the department of Physics.

Mrs. V. Shobana
AP / Physics
Convenor

Dr. A. Ammu Qudsiya
S & H / HOD

Dr. K.S. Srinivasan
PRINCIPAL



Mr. K. Balaji Sundharam, Assistant Professor, Department of Science and Humanities (English) has participated in a **Six-Day Online National FDP** on **"Advanced Computational and Experimental Research in Physics"** held from 09th to 14th December 2024 conducted by the Department of Physics, **Mohammed Sathak A.J. College of Engineering, Chennai.**

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