

REGULATORY & GOVERNANCE ASPECTS OF ARTIFICIAL INTELLIGENCE



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**A PRESENTATION
BY**

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ADVOCATE, SUPREME COURT OF INDIA

CHIEF EXECUTIVE, ARTIFICIAL INTELLIGENCE

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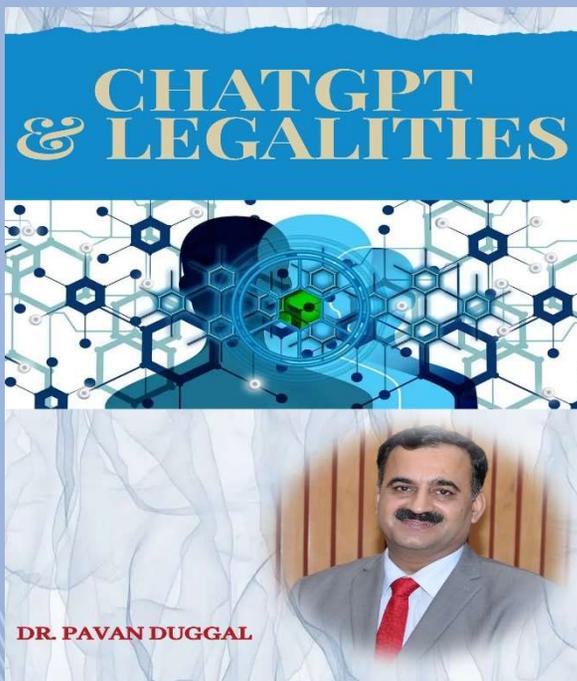
CHIEF EVANGELIST, METAVERSE LAW NUCLEUS

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CYBER SECURITY LAW

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CHATGPT LEGAL ISSUES



- The advent of ChatGPT has taken the world by storm.
- Ever since ChatGPT got launched on 30th November, 2022, it has been extensively adopted by stakeholders across the world and no wonder, its number of users are growing up in a dramatic manner.

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INCREASING USE OF CHATGPT

The screenshot shows the Hindustan Times website interface. At the top, there is a navigation bar with 'Explore', 'Search', and the Hindustan Times logo. The date is 'Thursday, Feb 02, 2023' and the location is 'New Delhi 23°C'. There are links for 'Games', 'E-Paper', and 'Sign in'. A 'Subscribe' button is also visible. Below the navigation bar, there are several category tabs: 'Home', 'Latest News', 'India', 'World', 'Delhi', 'Entertainment', 'Cricket', 'Lifestyle', 'Astrology', 'Editorials', 'For You', and 'Shop Now'. A secondary row of tabs includes 'Budget 2023', 'Trending', 'Quickreads', 'Daily Digest', 'Quiz', 'Videos', 'Photos', 'Tech', 'Business', and '+ 8 More'. The main content area features a 'TOP NEWS' section on the left with two news items. The central article is titled 'ChatGPT sets record for fastest-growing app with 100 million users: Report' and is categorized under 'Technology'. It includes a sub-headline, a publication date, and a short paragraph of text. Below the text is a small image showing a presentation slide for OpenAI. To the right of the article is a placeholder for an advertisement.

Explore Search HT Hindustan Times Games E-Paper Sign in
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Home Latest News India World Delhi Entertainment Cricket Lifestyle Astrology Editorials For You Shop Now

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[TOP NEWS]

INDIA NEWS
'Zindagi ke saath thi': Cong's jab at LIC on Adani row; 'Who's Chung Ling?'
Published on Feb 02 04:55 PM IST

INDIA NEWS
'Our children...they are proud': Journalist Siddique Kappan's wife on his release

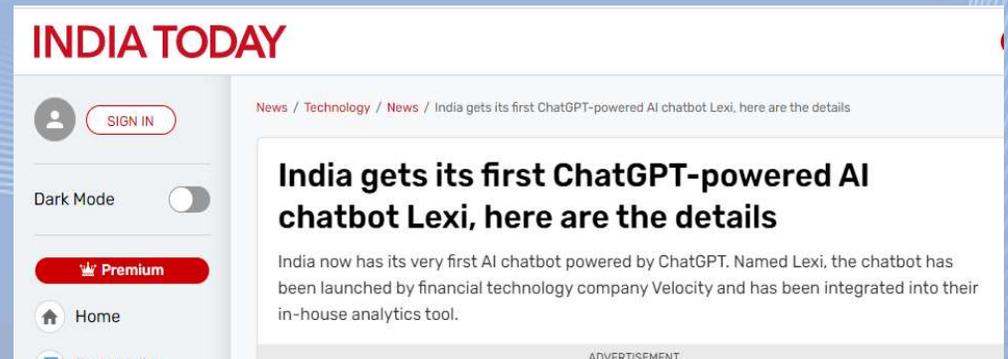
Home / Technology / ChatGPT sets record for fastest-growing app with 100 mil...
ChatGPT sets record for fastest-growing app with 100 million users: Report
Technology
Published on Feb 02, 2023 01:16 PM IST

The report, citing data from analytics firm Similarweb, said an average of about 13 million unique visitors had used ChatGPT per day in January.

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INCREASING USE OF CHATGPT



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USE OF ARTIFICIAL INTELLIGENCE



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HOME **NEWS** MOBILE ▾ LAPTOPS PC ▾ WWDC GADGETS ▾ RECOMMENDER ▾ COMPARE ▾ PHOTOS VIDEOS WEB STORIES

Home > Tech > News > OpenAI CEO Sam Altman shocks, says trusts ChatGPT the least on Earth

OpenAI CEO Sam Altman shocks, says trusts ChatGPT the least on Earth

The OpenAI founder and CEO acknowledged the AI hallucination problem and jested that he trusts the answers that come out of ChatGPT the least.

By: AKASH DUTTA | Updated on: Jun 08 2023, 23:49 IST



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ADVENT OF GPT-4

Live Webinar and Q&A: The Future of Cloud Architectures is BYOC (Live Webinar May 4th, 2023) [Save Your Seat](#)

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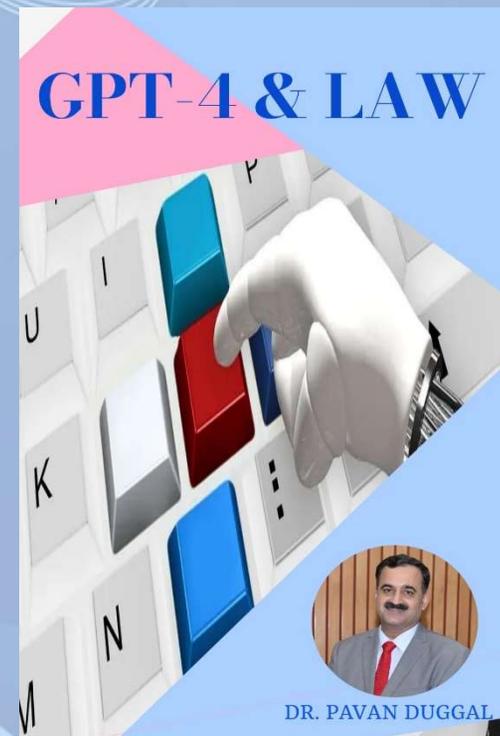
The Software Architects' Newsletter
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InfoQ Homepage > News > OpenAI Announces GPT-4, Their Next Generation GPT Model

[AI, ML & DATA ENGINEERING](#) [Building field-level lineage for modern data systems \(Live Webinar Apr 13, 2023\) - Save Your Seat](#)

OpenAI Announces GPT-4, Their Next Generation GPT Model

LIKE DISCUSS



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USE OF ARTIFICIAL INTELLIGENCE

 Global Times 



SOURCE / ECONOMY

Shanghai adopts China's 1st provincial-level AI law to support sound, safe development

By Global Times

Published: Sep 22, 2022 08:19 PM



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USE OF ARTIFICIAL INTELLIGENCE



India World Opinion Sports e-Paper

TH FREE TRIAL

SUB

HOME / NEWS / INDIA

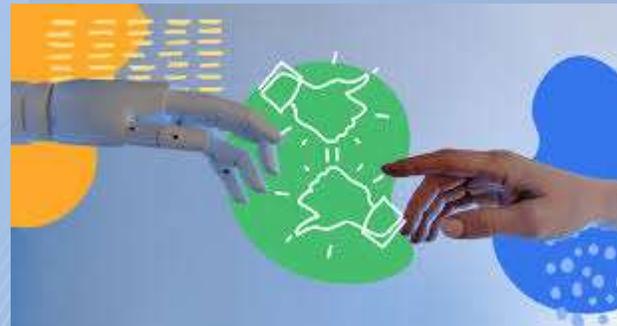
Complete reliance on AI for auditing may lead to inaccurate findings: CAG Murmu

As regards the initiatives pertaining to the “Blue Economy” sector, the CAG said through the Supreme Audit Institutions-20 forum, the institution was trying to get an insight, expertise and experience from the other members

March 15, 2023 01:13 pm | Updated 05:37 pm IST - NEW DELHI

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ARTIFICIAL INTELLIGENCE AS A DOUBLE EDGED SWORD



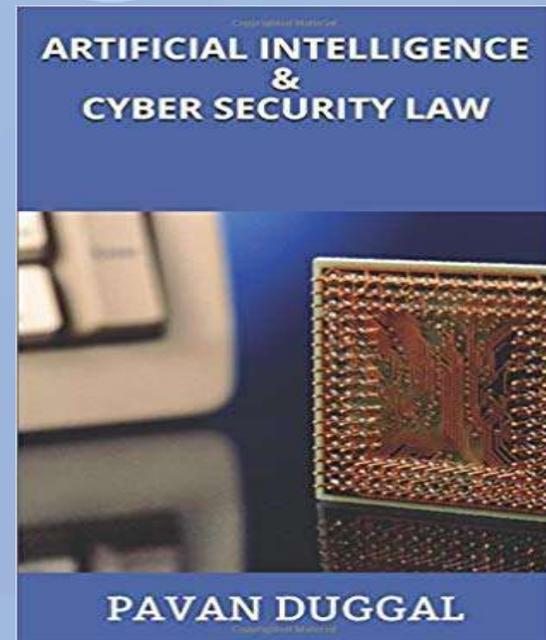
PAVAN DUGGAL

**CYBER
SECURITY LAW
THOUGHTS ON
IOT, AI
&
BLOCKCHAIN**

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AI & CYBER SECURITY

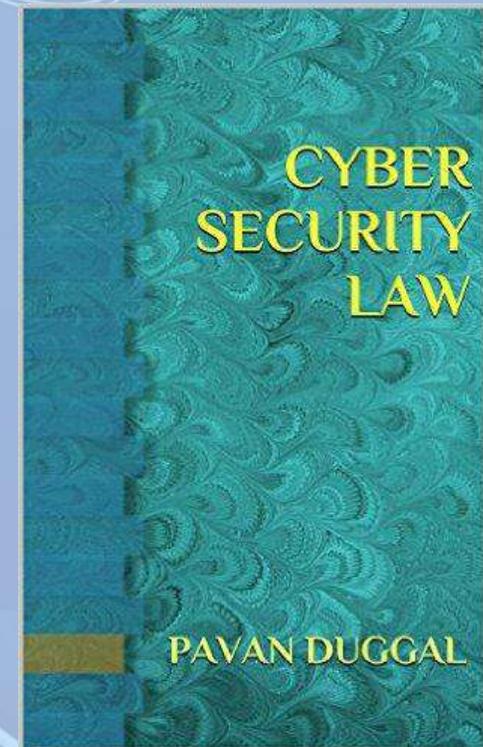
- Artificial Intelligence and cybersecurity have an intrinsic connection with each other.



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AI & CYBER SECURITY (CONTD...)

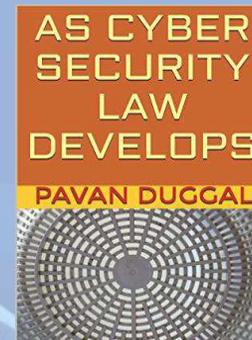
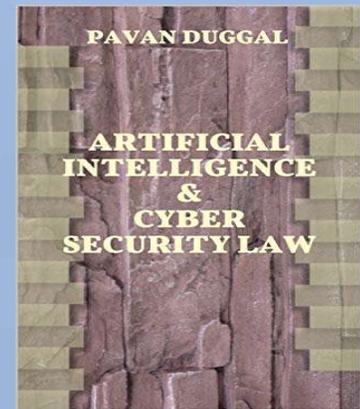
- As more and more developments are coming up in Artificial Intelligence ecosystem, it is absolutely essential that the said ecosystem must be secure and resilient from potential cybersecurity attacks.



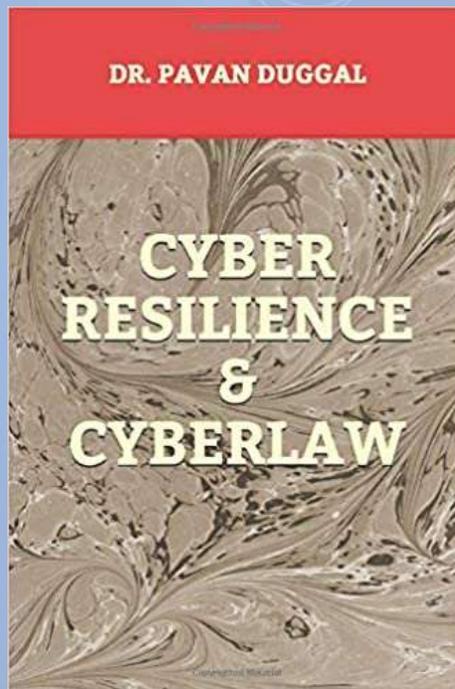
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AI & CYBER SECURITY (CONTD...)

- AI is being rapidly used to bolster cybersecurity and offer more protections against sophisticated hackers.
- It helps by automating complex processes for detecting attacks and reacting to breaches.



AI & CYBER SECURITY (CONTD...)



- AI can open vulnerabilities as well, particularly when it depends on interfaces within and across organizations that inadvertently create opportunities for access by "bad actors" or disreputable agents.

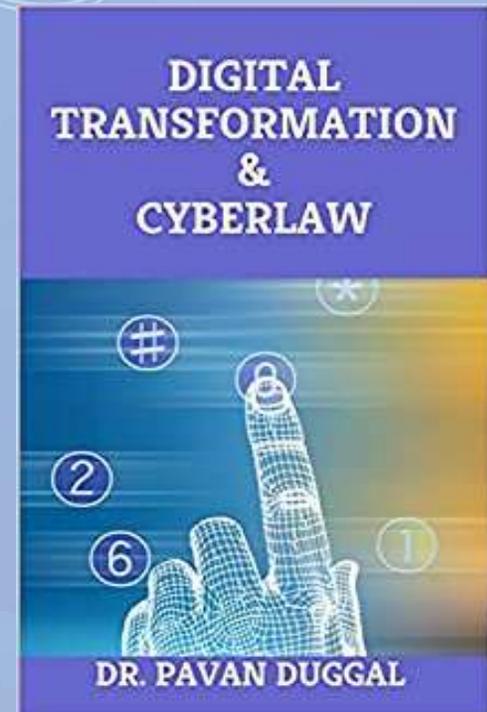


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INCREASING CYBERSECURITY BREACHES IN THE CONTEXT OF AI



The screenshot shows the header of a website with the logo 'gt government technology' and navigation links: EMERGING TECH, GOVTECH BIZ, TRANSPORTATION, WORKFORCE, MORE, and a search icon. Below the header, the article title 'How AI Is Shaping the Cybersecurity Arms Race' is displayed under the category 'CYBERSECURITY'. The article text states: 'Artificial intelligence is emerging as a key cybersecurity tool for both attackers and defenders.' It is dated 'February 25, 2022' and attributed to 'Sagar Samtani, Indiana University'. Social media sharing icons for Facebook, LinkedIn, Twitter, and Email are present. A featured resource advertisement from KPMG is titled 'Workforce to Support Your Digital Journey'. Below the ad, the text 'Featured Resources' is visible, followed by a partially cut-off 'CISCO' logo.



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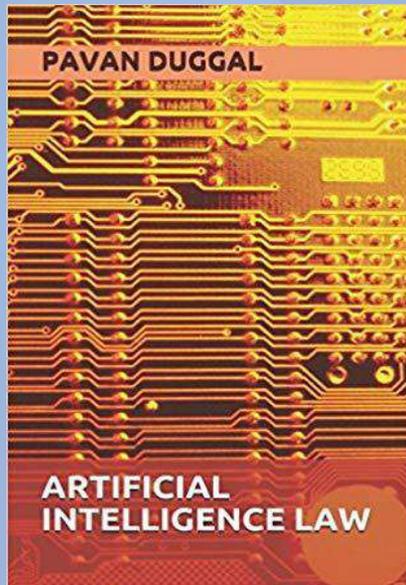
ARTIFICIAL INTELLIGENCE AND ETHICAL REQUIREMENTS

- How to make AI ethical?
- How can Responsible AI be made to follow ethical practices and policies?
- Inequality. How do we distribute the wealth created by machines?
- Human Behaviour & Artificial stupidity. How can we guard against mistakes?



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ARTIFICIAL INTELLIGENCE AND ETHICAL REQUIREMENTS



- Racist activities of robots
- Protection against Unintended Consequences
- Singularity. How do we stay in control of a complex intelligent system?
- Robot rights and humane treatment of AI



AI & BIAS

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The Challenge of Bias in AI – Creating Ethical Guidelines

by [Adrian Kemmerling](#) on February 6, 2020

TechStrong TV – Live Streaming



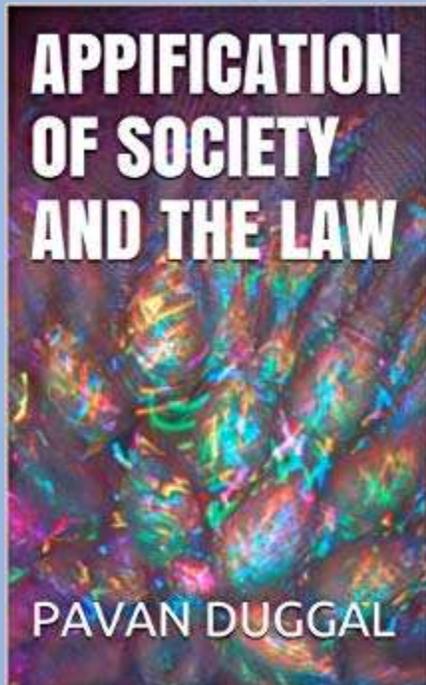
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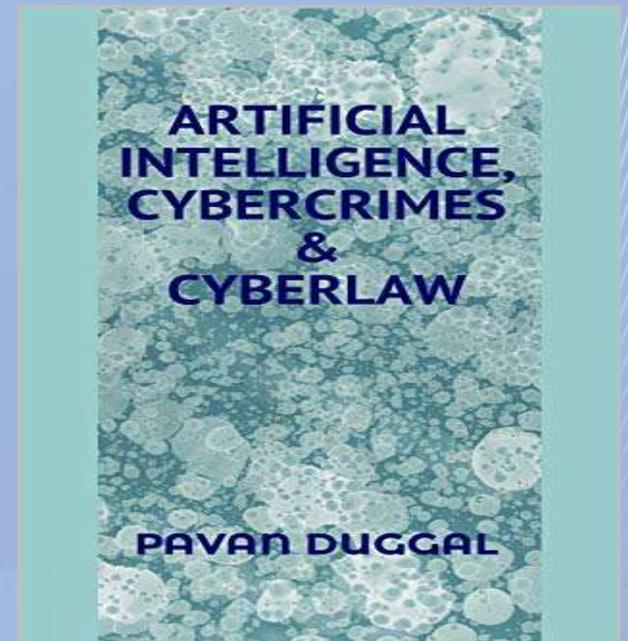
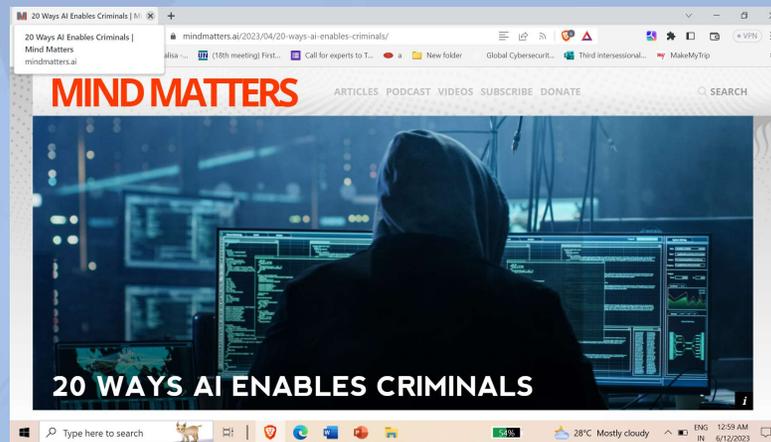
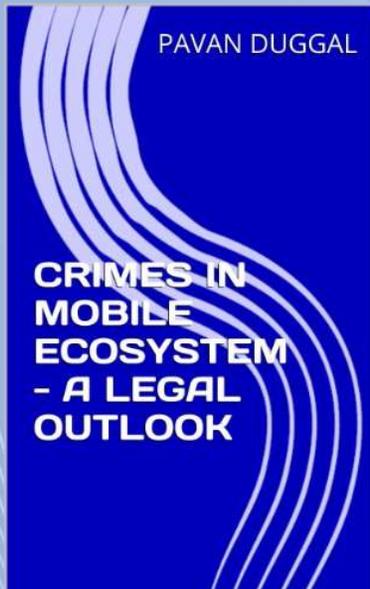
DUTY OF CARE AND DUE DILIGENCE FOR AI DEVELOPERS



A screenshot of a news article from the website 'Defence 24.com'. The page has a black header with the site logo and navigation links: 'DEFENCE POLICY', 'INDUSTRY', 'GEOPOLITICS', 'ARMED FORCES', and 'POLISH'. A 'LOGIN' button is in the top right. The article is categorized under 'TECHNOLOGY'. The main headline reads: 'AI and Cyber-Attacks. Oleg Orlov: Humans Cannot Keep Up - This is Where the AI Steps In'. Below the headline, the author is identified as 'PIOTR JASZCZUK' with a date of '0703.2022 09:13'. There are icons for 'DRUKUJ' (print), 'PDF', and social media (Facebook, Twitter, LinkedIn). A small image of a person is visible at the bottom left of the article content area.

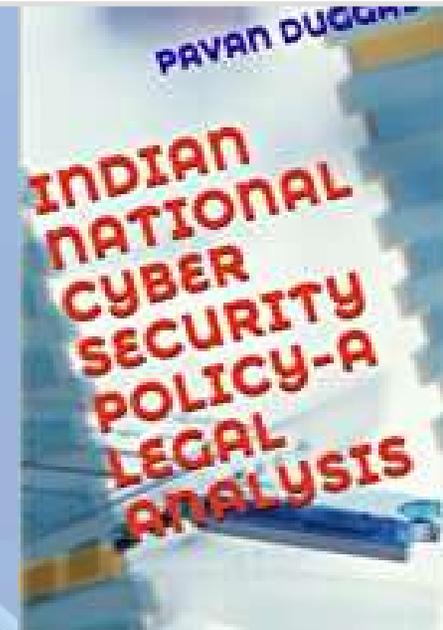
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AI CRIMES



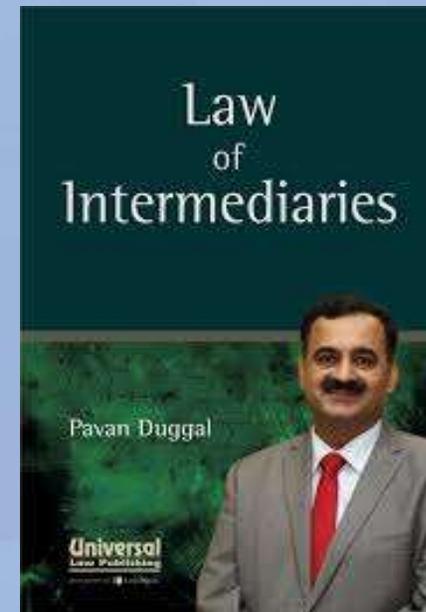
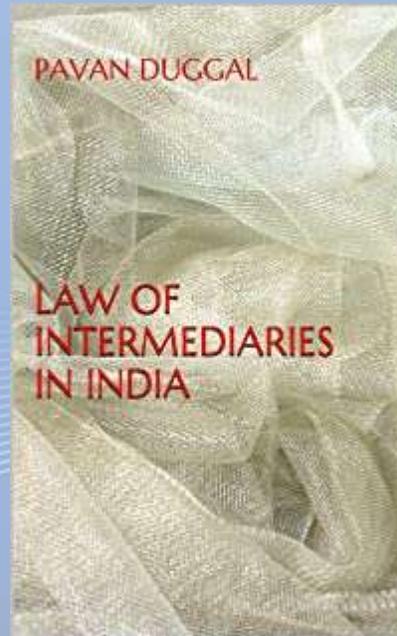
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ATTRIBUTION RELATED CHALLENGES IN CYBERCRIME AS A SERVICE POWERED BY ARTIFICIAL INTELLIGENCE



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INTERMEDIARY LIABILITY IN THE CONTEXT OF AI



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SELF REGULATION BY AI DEVELOPERS



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NEWS

China's AI regulations face technical challenge

China's AI regulations ask for things that may not be technically feasible, said Russell Wald, policy director at Stanford University's Institute for Human-Centered AI.



By [Makenzie Holland](#), News Writer

Published: 17 Mar 2022



China is one of the first countries to regulate AI algorithms -- a regulation that may prove technically difficult for businesses to adhere to.

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US AND CANADA APPROACHES

Herald&Review The 'Illinois Artificial Intelligence Video Interview Act' is a real law. Here's why it may be coming to a job application near year. 0 comments

The 'Illinois Artificial Intelligence Video Interview Act' is a real law. Here's why it may be coming to a job application near year.

ARDEL JIMENEZ Chicago Tribune Jan 26, 2020 0

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June 24, 2022

Federal Government Proposes New Law to Regulate Artificial Intelligence Systems

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On June 16, 2022, the federal government introduced Bill C-27, the *Digital Charter Implementation Act, 2022* (Bill C-27 or Bill). If passed, the Bill would significantly reform federal private-sector privacy law. It would also introduce rules to regulate “high-impact” artificial intelligence (AI) systems under a new *Artificial Intelligence and Data Act* (AIDA).

AIDA would, among other things:

- Establish a new Artificial Intelligence and Data Commissioner to support the Minister of Innovation, Science and Industry in enforcing AIDA.
- Make it an offence to make available or use an artificial intelligence system that is likely to cause serious harms

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USE OF AI BY CHINA IN COURTS



The
EurAsian
Times

Thursday, August 11, 2022

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SOUTH ASIA

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China's AI-Enabled 'Smart Courts' To Recommend Laws & Draft Legal Docs; Judges To Take Consult AI Before Verdict

By **Tanmay Kadam** | July 16, 2022

China has been working to build a 'smart court' system since at least 2016 by incorporating Artificial Intelligence (AI) into its justice system. The new system requires the judges to consult AI on each case, and if they reject the AI's recommendation, they must provide a written explanation.

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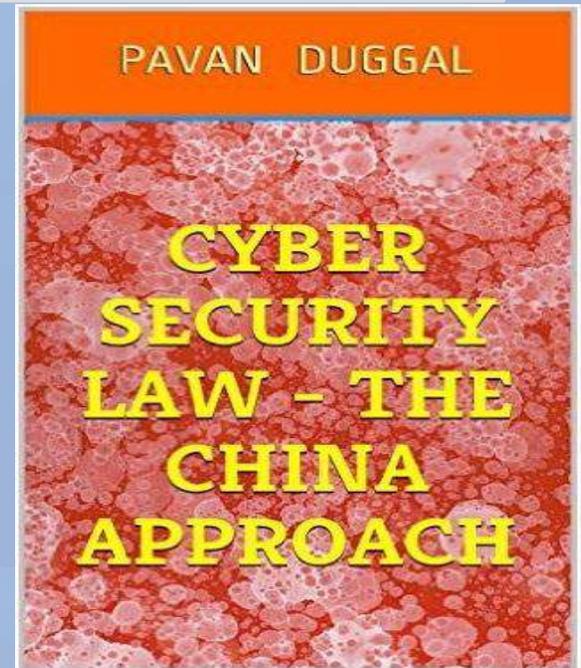
USE OF AI BY ESTONIA IN COURTS

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ERIC NITLER BUSINESS 03.25.2019 07:00 AM

Can AI Be a Fair Judge in Court? Estonia Thinks So

Estonia plans to use an artificial intelligence program to decide some small-claims cases, part of a push to make government services smarter.



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EU NORMS CONCERNING CYBERSECURITY IN THE CONTEXT OF AI

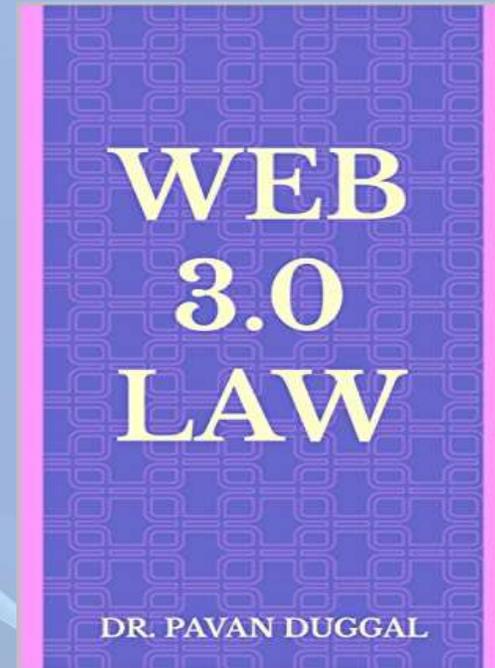
The screenshot shows the Datanami website interface. At the top left is the logo 'datanami' with the tagline 'DATA SCIENCE • AI • ADVANCED ANALYTICS'. A navigation menu includes 'HOME', 'COVID-19', 'FEATURES', 'SECTORS', 'APPLICATIONS', 'TECHNOLOGIES', 'VENDORS', 'JOB BANK', and 'EVENTS'. The main article is dated June 8, 2022, and is titled 'Europe's AI Act Would Regulate Tech Globally' by Alex Woodie. The article text states: 'The Artificial Intelligence Act was introduced to the European Union in April 2021, and is rapidly progressing through comment periods and rewrites. When it goes into effect, which experts say could occur at the beginning of 2023, it will have a broad impact on the use of AI and machine learning for citizens and companies around the world. The AI law aims to create a common regulatory and legal framework for the use of AI, including how it's developed, what companies can use it for, and the legal consequences of failing to adhere to the requirements. The law will likely require companies to receive approval before adopting AI for some use cases, outlaw certain other AI uses deemed too risky, and create a public list of other high-risk AI uses.' An image of the European Union flag is shown with the caption '(symbolic/Shutterstock)'. A sidebar on the right lists 'THIS JUST IN' and 'MOST READ' articles from June 23, 2022.

The screenshot shows the EURACTIV website interface. The top navigation bar includes 'Agrifood', 'Economy & jobs', 'Energy & Environment', 'Global Europe', 'Health', 'Politics', 'Technology', and 'Transport'. The main article is dated 30 May 2022 (updated 31 May 2022) and is titled 'The EU AI law will not be future-proof unless it regulates general purpose AI systems' by Kris Shrishak and Risto Uuk. The article text states: 'The EU AI law will not be future-proof unless it regulates general purpose AI systems'. A disclaimer reads: 'DISCLAIMER: All opinions in this column reflect the views of the author(s), not of EURACTIV Media network.' A sidebar on the right lists 'Popular articles' including 'French elections : final results, second round' and 'Russia demands Lithuania lift Kaliningrad transit ban immediately'.

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DEVELOPMENTS AT INTERNATIONAL LEVEL (CONTD...)

- Different initiatives have begun in the direction of regulating Artificial Intelligence at global level.



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DEVELOPMENTS AT INTERNATIONAL LEVEL (CONTD...)

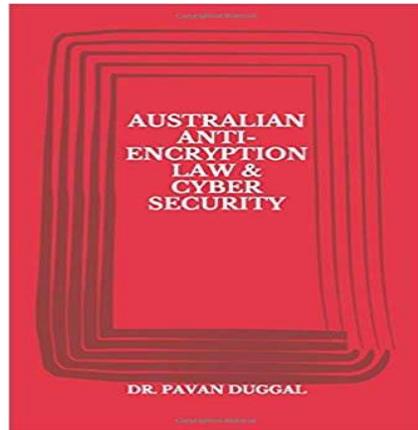
➤ Different countries have come up with Artificial Intelligence policies and strategies.

The screenshot displays the INDIAai website interface. At the top, there is a navigation menu with 'LEARNING', 'ARTICLES', and 'NEWS'. The central logo features the Indian national emblem and the text 'INDIAai' with the tagline 'A SMART, NEED & INNOVATION INITIATIVE'. To the right, there is a search bar labeled 'Search INDIAai' and a 'SIGN UP/IN' button for personalized updates. The main content area is divided into three columns. The left column contains three article previews: 'AI CONCEPTS FOR BEGINNERS' titled 'The impact of logic programming in AI systems' by Dr Nivash Jeevanandam; 'AI bias is not only due to biased data, NIST Report Highlights' by INDIAai | AI Research; and 'CONVERSATIONS' titled '"We need the right data to be in the right place at the..."' by Geetika Sachdev | Semiconductors. The middle column features a large image of two surveillance cameras mounted on a wall. The right column shows a 'COLLEGES' section for 'Xen University, Hyderabad' and a 'USER' section for 'MA INS' with a 'Know' icon.

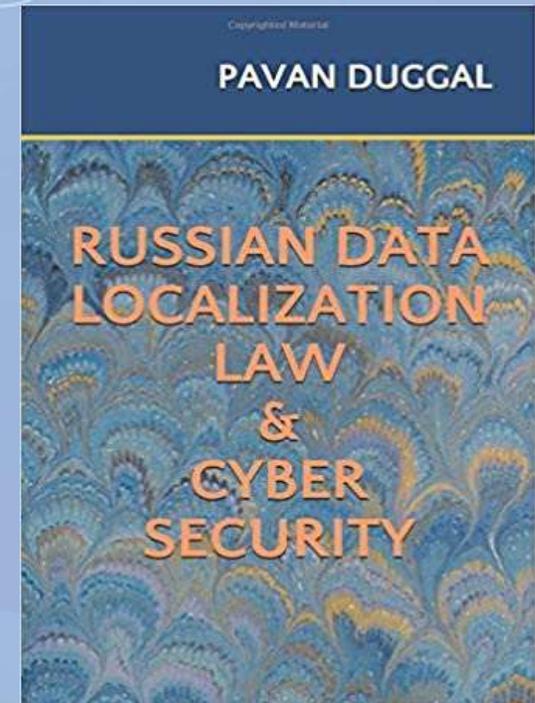
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DEVELOPMENTS AT INTERNATIONAL LEVEL (CONTD...)

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- India
- Ireland
- Italy



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- Mexico
- Russia
- Singapore
- Saudi Arabia
- South Korea
- Sweden
- United Arab Emirates
- USA
- United Kingdom



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REGULATION OF ARTIFICIAL INTELLIGENCE – CAHAI OF COUNCIL OF EUROPE

COUNCIL OF EUROPE
CONSEIL DE L'EUROPE

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Artificial Intelligence

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Ad hoc Committee on Artificial Intelligence – CAHAI

On 11 September 2019, the Committee of Ministers of the Council of Europe set up an Ad hoc Committee on Artificial Intelligence – CAHAI.



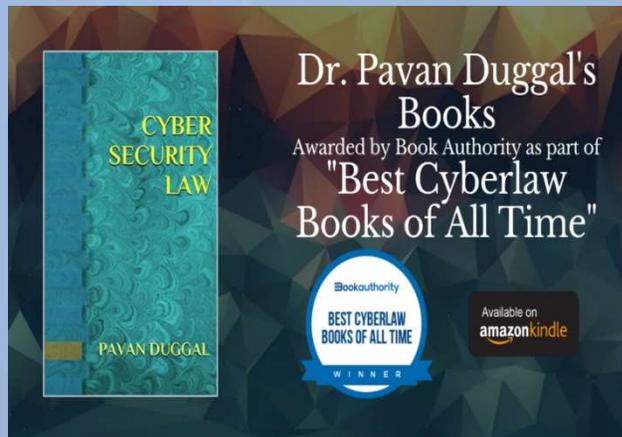
www.coe.int/ai

Towards an application of AI based on human rights, the rule of law and democracy

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NO INTERNATIONAL ARTIFICIAL INTELLIGENCE LAW

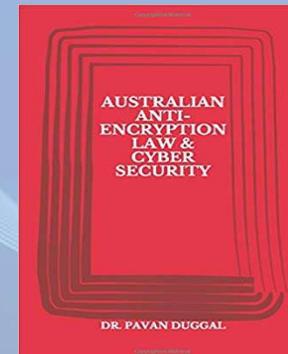
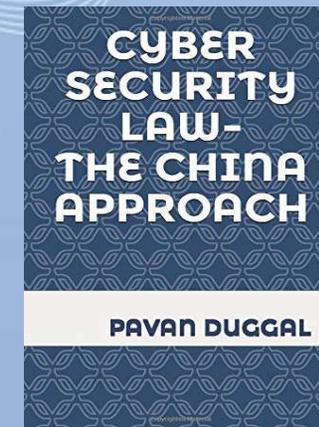
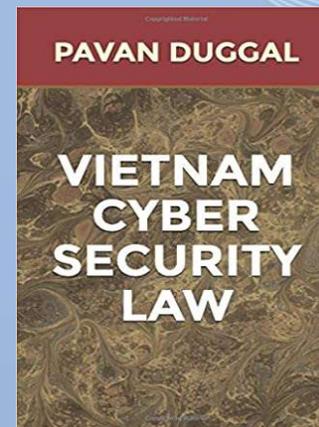


- NO INTERNATIONAL ARTIFICIAL INTELLIGENCE LAW IN PLACE.
- DIFFERENT COUNTRIES HAVE IN PLACE THEIR OWN DISTINCTIVE NATIONAL POLICIES ON ARTIFICIAL INTELLIGENCE

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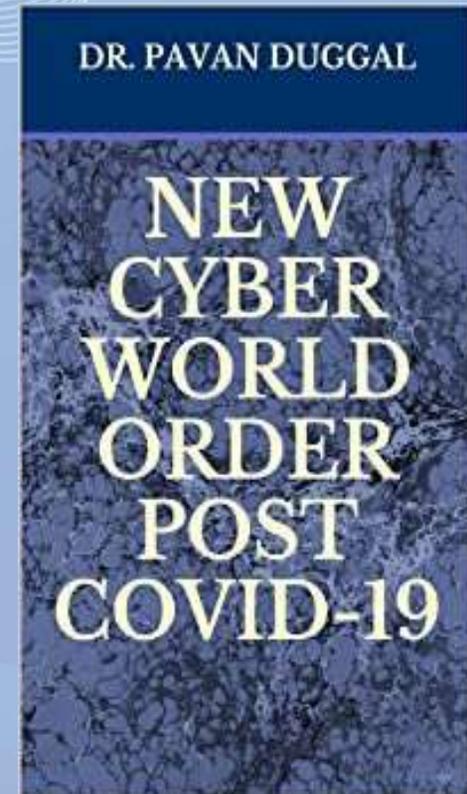
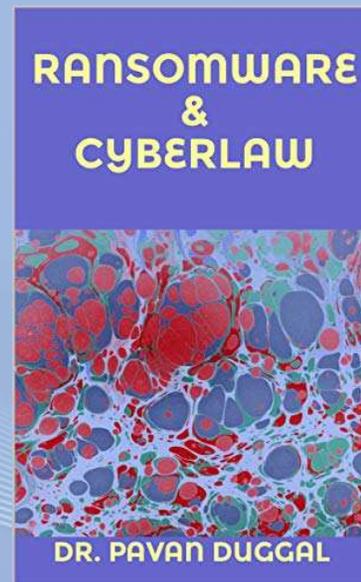
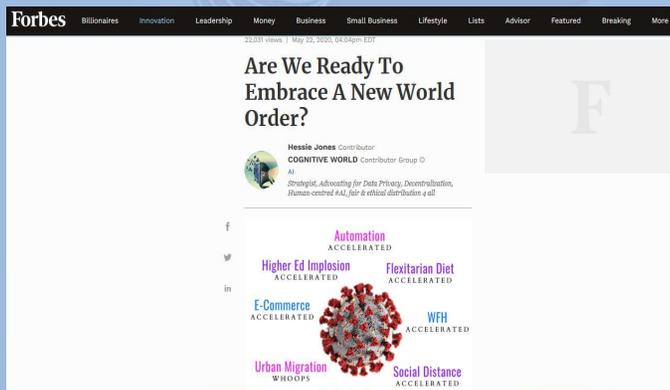
APPLICABILITY OF EXISTING CYBER SECURITY LAWS AND OTHER BILLS TO ARTIFICIAL INTELLIGENCE

- ✓ China
- ✓ Russia
- ✓ Vietnam
- ✓ Thailand
- ✓ Australia (Anti-Encryption law)
- ✓ Singapore
- ✓ Egypt
- ✓ New York
- ✓ Germany
- ✓ Zimbabwe
- ✓ California
- ✓ Macau / Taiwan



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NEW CYBER WORLD ORDER



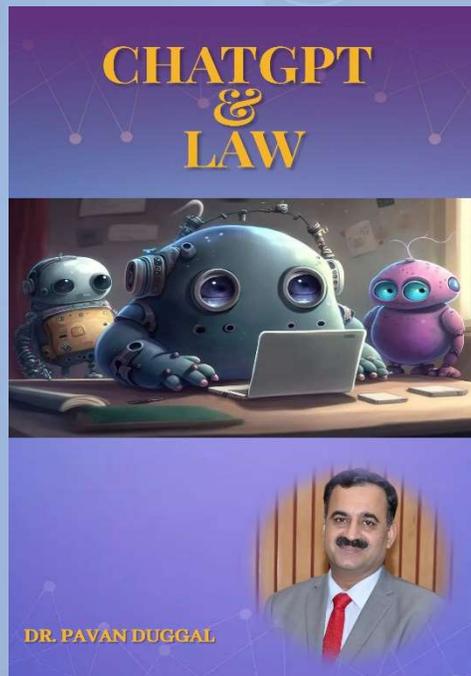
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GEN AI & AUDIT

- One important question that comes up for consideration is whether Generative AI like ChatGPT can be used for audit purposes.
- ChatGPT could be used to research on the principles and the provisions that would impact audit.
- At best, ChatGPT can be used as a torchlight that can be used to throw light in the ecosystem of darkness.



HALLUNICATION OF DATA



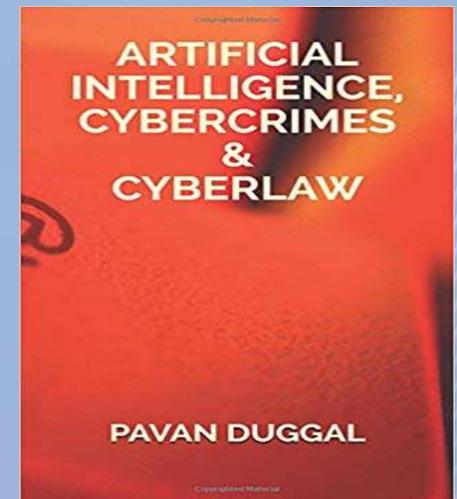
- Given that ChatGPT is constantly hallucinating data, any kind of audit exercise done by ChatGPT is likely to be fraught with large number of legal and policy challenges.



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CHAGPT & AUDIT (CONTD...)

- Firstly, the biggest challenge pertaining to use of ChatGPT for audit will be the authenticity of the said audit.



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US LAWYER CHATGPT FILING CASE

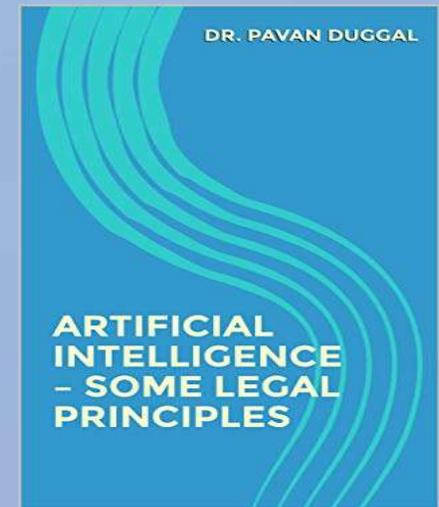
A screenshot of a Forbes article. The browser address bar shows the URL: forbes.com/sites/mollybohannon/2023/06/08/lawyer-used-chatgpt-in-court-and-cite-.... The article title is "Lawyer Used ChatGPT In Court— And Cited Fake Cases. A Judge Is Considering Sanctions". The author is Molly Bohannon, a Forbes Staff member. The article is dated June 8, 2023, at 02:06pm EDT. A "Listen to article 6 minutes" button is visible. A "TOPLINE" section states: "The lawyer for a man suing an airline in a routine personal injury suit used ChatGPT to prepare a filing, but the artificial intelligence bot". The browser's taskbar at the bottom shows the time as 12:49 AM on 6/12/2023.

A screenshot of a Reuters article. The browser address bar shows the URL: reuters.com/legal/transactional/us-judge-orders-lawyers-sign-ai-pledge-warning-they-mak.... The article title is "US judge orders lawyers to sign AI pledge, warning chatbots 'make stuff up'". The author is Jacqueline Thomsen. The article is dated June 2, 2023, at 10:47 PM GMT+5:30, updated 9 days ago. A video thumbnail shows a man speaking, with the caption "This is Crisp GREENE, a lawyer p faces tough odds in classified documents case". The browser's taskbar at the bottom shows the time as 12:50 AM on 6/12/2023.

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CHAGPT & AUDIT (CONTD...)

- It can also be used for the purposes of generating certain essential parameters that can be used for auditing purposes, including audit of computer systems, networks and also communication devices and their cyber security.



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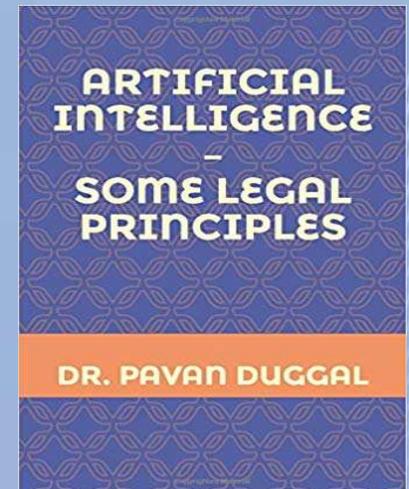
CHAGPT & AUDIT (CONTD...)

- If an audit is done using ChatGPT and the same is found to be inaccurate or contains inaccurate conclusions, it would entail legal consequences for the auditors using ChatGPT.
- Outsourcing the auditing function to an Artificial Intelligence algorithm will potentially face huge number of legal challenges, apart from opening up a Pandora's Box of legal liabilities.



CHAGTP & AUDIT (CONTD...)

- Indiscriminate use of ChatGPT for auditing purposes could also prejudicially impact the reputation, standing, goodwill and repute of the auditor and the auditing firm.
- It could potentially land up the audited entity as also the auditor firm and the auditors concerned into legal trouble and legal exposure to civil suits and criminal trials.



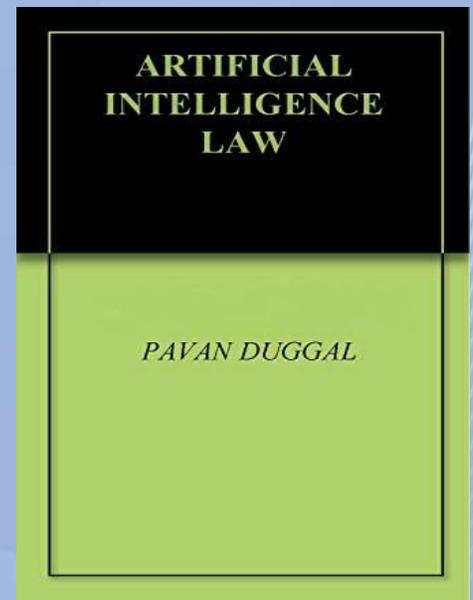
CHAGTP & AUDIT (CONTD...)

- In case ChatGPT is used for audit purposes, the potential bias element in the said ChatGPT audit could also raise huge problems of potential discrimination and legal challenges.
- It is best and advisable for auditors not to rely upon ChatGPT for conducting audit till such time ChatGPT has reached a substantially advanced level of its evolution.



AI AUDIT & LEGAL DEVELOPMENTS

- New York City has passed a law requiring companies providing AI that helps make hiring decisions to obtain “bias audits” of their technology



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AI AUDIT & LEGAL DEVELOPMENTS (CONTD...)

- As per reports in the public domain, Washington, D.C. could pass a bill that would force entities using algorithmic tools to determine employment, housing or loan eligibility to cough up algorithms and the data used to train them for auditing.



AI AUDIT & LEGAL DEVELOPMENTS (CONTD...)

- The European Union is mulling legislation addressing the risks of artificial intelligence, and the Federal Trade Commission and U.S. lawmakers want to hold companies accountable for harms and discrimination created by AI systems.



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CHALLENGES FOR AUDITORS (CONTD...)

- AI's rise has been accompanied by the traditional lag time between early adoption and the establishment of regulatory and compliance frameworks.
- There is no mature auditing framework in place detailing AI sub-processes, nor are there any AI-specific regulations, standards or mandates.



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CHALLENGES FOR AUDITORS (CONTD...)

- A coherent understanding of enterprise AI will be dispersed—and, over time, perhaps even lost—across tiers of AI providers.
- This will subsequently increase the challenge for the AI auditor.



NEED TO DEVELOP PRINCIPLES OF AUDIT OF AI

- **Need for the Auditing Institutions of the world to come up with common accepted legal principles of audit of Artificial Intelligence, including Generative Artificial Intelligence.**



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The logo for the Artificial Intelligence Law Hub features the text "Artificial Intelligence Law Hub" in a serif font, centered within a yellow rectangular box. This box is set against a background of a complex, grey-toned circuit board or network diagram. The entire logo is positioned in the upper center of a blue gradient background that has faint, white, curved lines on either side.

Artificial Intelligence Law Hub

Legal principles are evolving to regulate Artificial Intelligence.

Projects of Artificial Intelligence Law Hub:

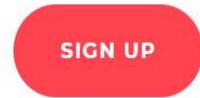
- ✓ Legal principles to enable AI for public good;
- ✓ Legally enforceable ethical standards and behaviour for AI;
- ✓ AI and cyber security – the uneasy legal marriage;
- ✓ Various other projects are in the pipeline.



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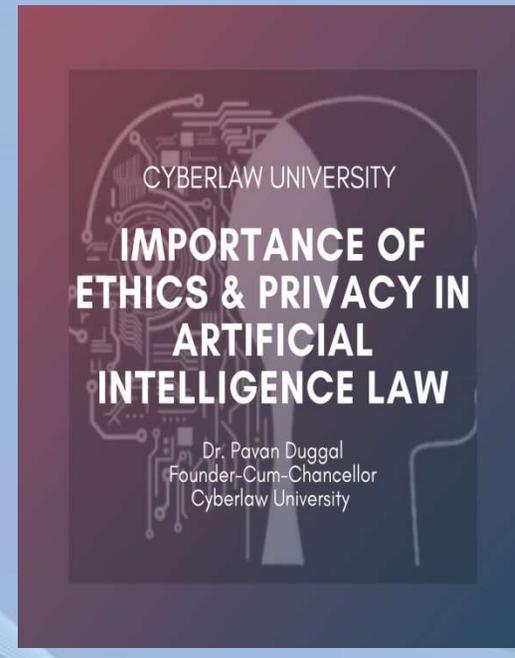
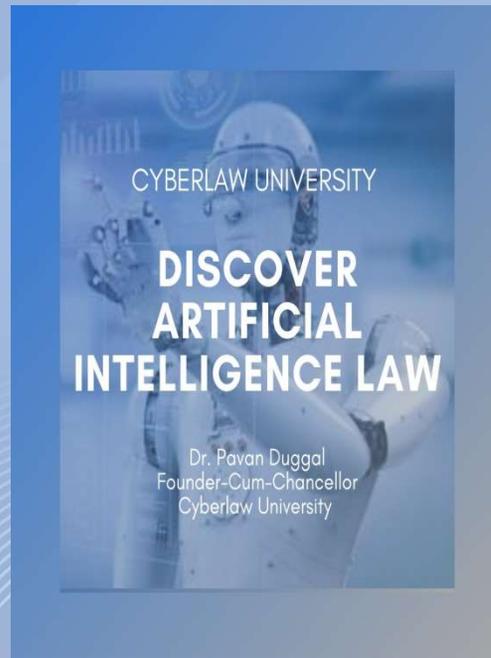
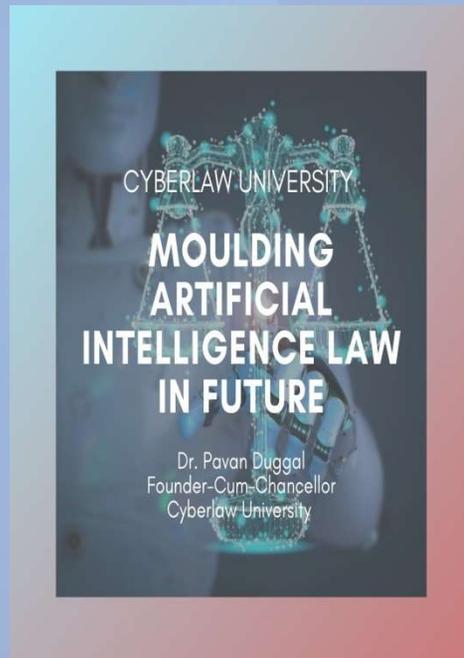
Welcome to Cyberlaw University

An Online Education Platform (Not Accredited to any Statutory Authority or Institution)*

Cyberlaw University is an online University that is specifically dedicated to the study of Cyberlaw and related legal issues. Cyberlaw University aims to provide various courses and diplomas that would make the participants more aware about the various legal issues pertaining to cyberspace, Internet and the World Wide Web.

The image shows two promotional posters for courses offered by Cyberlaw University. The left poster is for the 'International Cybercrime Law Certification Course' and the right poster is for the 'International Artificial Intelligence Law Certification Course'. Both courses are presented by Dr. Pavan Duggal, who is described as an 'Internationally Renowned Expert & Authority on Cyberlaw' and 'One of the Top 4 Cyber Lawyers in the World'. The posters also mention 'Cyberlaw University' and 'Dr. Pavan Duggal' as the presenter. At the bottom of each poster, it says 'For more info: www.cyberlawuniversity.com'.

AI COURSES @ CYBERLAW UNIVERSITY
(CYBERLAWUNIVERSITY.COM)



FIGURES SPEAK

- **Courses** offered by Cyberlaw University, as of now, have been done by more than **28,500 students** from **174** countries speaking **53 national languages**.
- **Artificial Intelligence Law** in the process of evolution



- All in all, Regulatory and Governance Aspects of Artificial Intelligence and connected jurisprudence today represent important fascinating aspects of our lives.
- These issues will have to be addressed at the earliest.
- Time is a luxury that humanity can ill afford in this regard.

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**A PRESENTATION
BY
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