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ARTIFICIAL INTELLIGENCE

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THANE CHAPTER OF WIRC
25 MAY 2024

What is AI?

- **Definition from OECD:** "Artificial intelligence (AI) is a branch of computer science that deals with the creation of intelligent agents, which are systems that can reason, learn, and act autonomously."
- **Definition from EU AI Act:** "AI system means any software that learns from data (including from text, sound, code, video or any other type of data) and can change its output based on such learning."
- **Definition from IAPP:** "AI is a technology that enables machines to exhibit human-like intelligence, such as the ability to learn, reason, solve problems, and make decisions."

What is ML?

According to Merriam-Webster, machine learning is "a computational method that is a subfield of artificial intelligence and that enables a computer to learn to perform tasks by analyzing a large dataset without being explicitly programmed."

According to Wikipedia, machine learning is "a field of study in artificial intelligence concerned with the development and study of statistical algorithms that can learn from data and generalize to unseen data, and thus perform tasks without explicit instructions."

Is AI new?



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Website Chatbots

Grammar and spellcheck editors

Personalized advertisements/ recommendations

Prompting content to write emails

Personal digital assistants

Algorithmic trading

Map applications

Ride-sharing applications

Noise cancellation in ear phones

Social media filters

Email spam filtering

Fraud detection

Self-driving cars

Delivery drones

Computer games e.g. Chess

Banking transactions

What's new?

- **Advent of Generative AI (“GenAI”):** Rise of Generative Pre-trained Transformers (GPTs) and other large language models (LLMs) capable of producing human-quality text and code.
- **Large Language Models:** "Large language models (LLMs) are a type of artificial intelligence (AI) that learn to generate and understand language based on massive amounts of text data. They can be used for a variety of tasks, such as generating text, translating languages, writing different kinds of creative content, and answering your questions in an informative way."
- **Natural Language Processing:** Natural language processing, which is the process of enabling machines to understand and generate natural language, such as speech and text. Natural language processing can use various techniques, such as parsing, sentiment analysis, summarization, and translation, to extract meaning, convey information, and facilitate communication.

Credits

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Gemini

Who is building the LLMs?

ChatGPT 4,
developed by Open
AI

- can generate realistic and engaging text conversations based on a given prompt

Gemini, developed by
Google

- can learn from bidirectional contexts and achieve state-of-the-art results on various natural language understanding tasks

LLaMA 2, developed
by Meta

- can learn from multilingual and multimodal data and perform cross-lingual and cross-modal transfer learning

Claude 4, developed
by Anthropic

- can generate high-quality and diverse text content for various domains and purposes

Grok, by X

- Can answer a wide range of questions, including sharp queries that other AI models may refuse

Things that GenAI can do today



Mock interview questions



Search engine capabilities



Document summarization



Travel guide planning



Personal advice



Love letter writing



Creative writing formats



Question paper design



Passing the law exam



Caption suggestions



Quiz generation



Homework assistance



Translation services



Recipe generation



Creative writing assistant



Software development

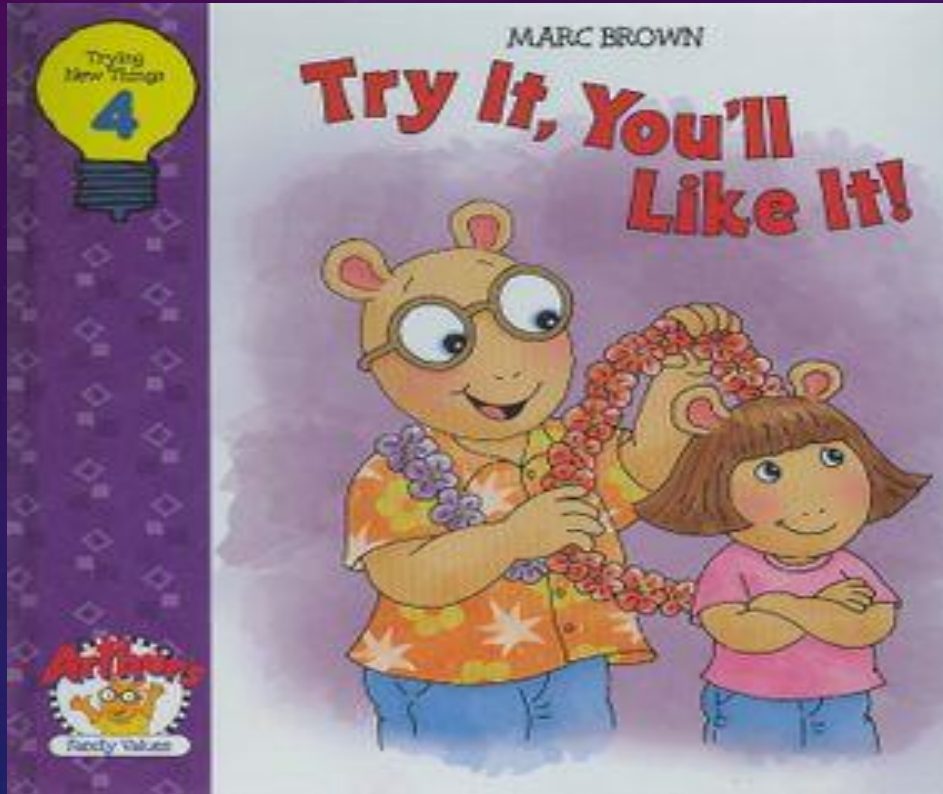


Party planning ideas



Marketing email creation

GenAI for CS



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[OpenAI Platform](#)

GenAI for CS: Low-hanging fruits

Crafting Compelling Cover Letters:	Generate personalized and error-free letters to statutory authorities like the Registrar of Companies, saving time and ensuring compliance.
Drafting Resolutions with Ease:	Quickly generate accurate and well-structured board or shareholder resolutions, adapting to specific contexts and legal requirements.
Proofreading powerhouse:	Eliminate typos and grammatical errors in documents effortlessly, ensuring impeccable communication with stakeholders.
Meeting Minutes Made Easy:	Summarize key points and discussions from any meeting with AI precision, leaving you with accurate and concise records.
Board Docs in a Breeze:	Prepare efficient and comprehensive board documentation, including agendas and reports, with the help of AI-powered formatting and insights.
Client Communication Simplified:	Draft professional and responsive emails to clients, addressing their inquiries and concerns with clarity and accuracy.
Creative Spark for your Brand:	Ideate and design a unique logo for your firm, leveraging GenAI's creative potential to stand out from the competition.
Tech Troubleshoot:	Resolve minor technical issues with software applications, utilizing GenAI's problem-solving skills to keep you productive.
ATS-Friendly Resumes:	Craft a resume that shines in Applicant Tracking Systems, employing AI-powered optimization techniques to land your dream job.
Meeting Recap with Zoom Companion	Capture key points and action items from Zoom meetings automatically with an AI assistant ¹⁰ , keeping everyone informed and on track.

SLMs, AI Agents and Bespoke AI

SLMs

- AI models that use a smaller neural network, fewer parameters, and less training data than large language models.

Bespoke AI

- refers to artificial intelligence solutions that are customized and personalized for specific users, tasks, or domains.

AI Agents

- software programs or systems that are designed to perceive their environment, make decisions, and take actions autonomously to achieve specific goals.

Multi-modal LLMs

- AI models that can process and generate not just text, but also audio, video, and other data formats.

Advanced Use-Cases for Company Secretaries

Crafting Captivating Mission & Vision	Generate inspiring and impactful mission and vision statements that reflect your company's values and aspirations.
Investor Relations on Autopilot:	Develop personalized communication strategies and respond to investor inquiries with AI-powered insights and efficiency.
Real-time Regulatory Compliance:	Stay ahead of the game with instant alerts and summaries of new regulations, ensuring continuous compliance.
Q&A Master:	Anticipate potential questions at board and general meetings, preparing effective responses and ensuring seamless engagement.
Chairman's Voice Made Easy	Draft impactful and insightful Chairman's letters to shareholders, leveraging AI's data-driven analysis and persuasive language skills.
Risk Assessment Reimagined:	Identify and evaluate potential risks with greater accuracy and speed, incorporating AI-powered data analysis and scenario simulations.
Compliance Champion:	Automate statutory compliance monitoring, freeing up time for strategic tasks and ensuring complete adherence to legal requirements.
Policy Powerhouse:	Craft comprehensive and effective internal policies like CSR policies, utilizing AI's ability to analyze best practices and tailor them to your company's needs.
Predicting Shareholder Sentiment	Analyze vast data sets to anticipate voting patterns and tailor corporate communication accordingly.

Risks and Limitations

A gathering of company secretaries



Risks and Limitations

Risks

- Bias Blind Spots
- The Black Box Problem
- Copyright Issues
- AI Hallucinations
- Privacy Paradox
- Security Concerns
- Out of Date Data

Limitations

- Beyond Deep Understanding
- Navigating the Gray Areas
- The Art of Influencing

Can I start using GenAI?

Input



- Is it used for model training?
- What are the security controls?
- Who owns the inputted data?

Output



- Quality and accuracy checks
- Intellectual property violations
- Bias mitigation

Governance

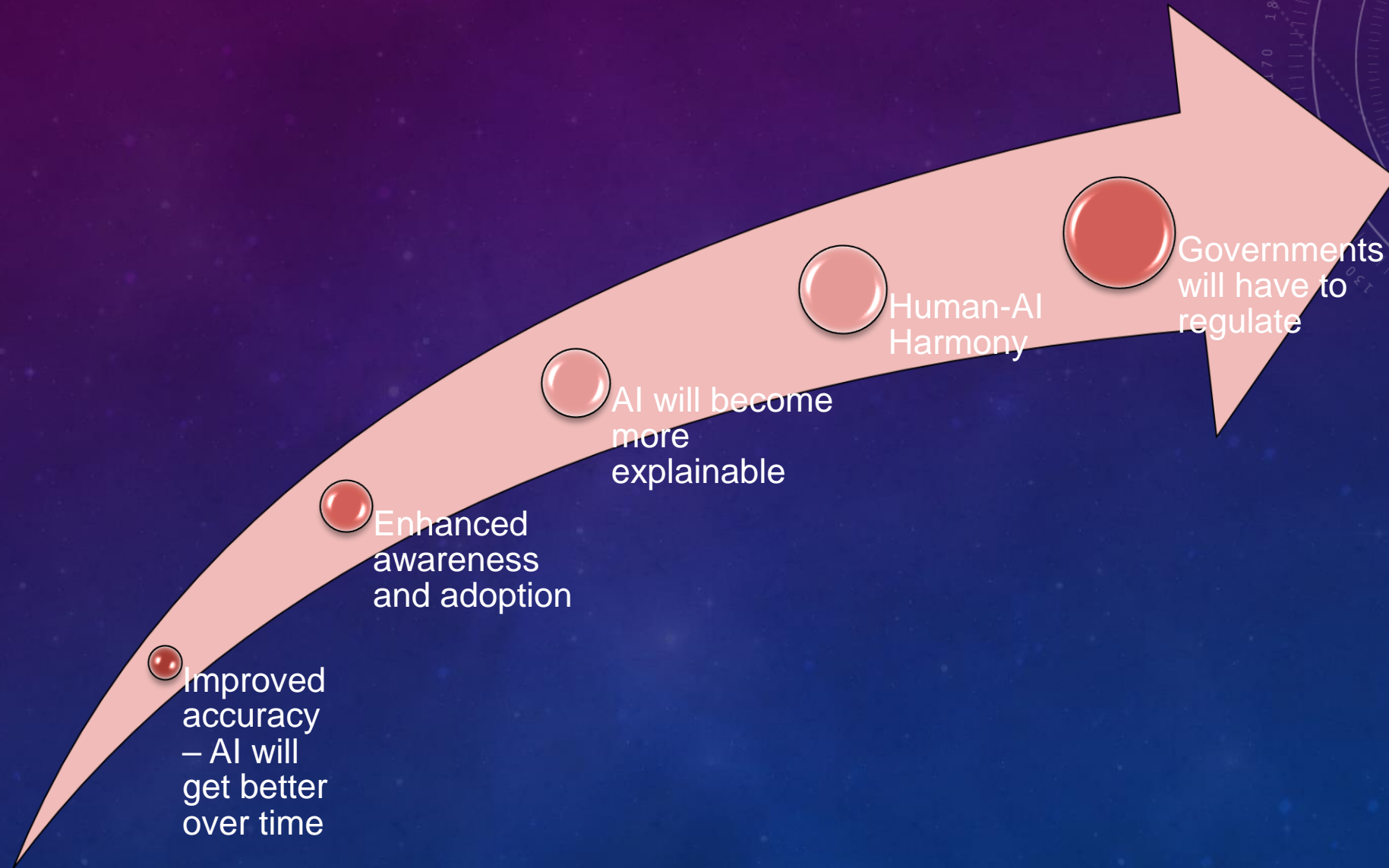
Governance Developing an AI Acceptable Use Policy

Classifying AI

Terms of Use Review

Establishing an AI Governance Committee

Trends and Possibilities



Summary

“Artificial Intelligence will not take your job (in the next few years),
but people using it will”

Ma Gowdat – Former Chief Business Officer of X

Questions?

