



Demystifying Artificial Intelligence

- Al systems learn from data to identify patterns and make predictions.
- Performance can resemble human intelligence.
- Used for decades.
- · Chat-GPT brought to mainstream.



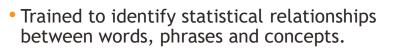
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Large Language Models

• LLMs reply to and generate natural language.





 Question of whether LLMs can ever achieve "general" intelligence.



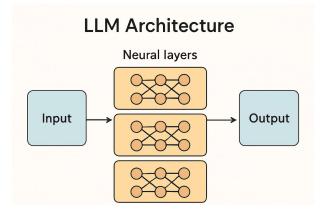
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Large Language Models



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LLM Vocabulary



• Training: Learn associations from massive datasets.

- Parameters: Internal variables represent associations.
- Weights: Values represent strength of associations.
- Tuning: Adjusting for specific data or behavior.
- Inference: Running the model.
- Context Window: How much the model can "remember."

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Peering under the hood

Controlling the "temperature" of a model

Simplified example: guess the next word

No			
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Open and Closed Models

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Open-Source Models	Most Free Models	Closed Systems
Code, parameters, and weights are publicly available.	User-entered data and result can be used for future training.	Provider does not see user- entered data or results.
Allows for modification, redistribution and greater transparency.	Is not directly training on inference but still raises privacy concerns.	Often used for proprietary models or in highly regulated industries.
Meta's LLaMA	ChatGPT (free version)	Enterprise-level LLMs (separate instances)

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The Challenge of Hallucinations

• Plausible-sounding, but inaccurate statements.

- Limited understanding of the world (only knows statistical relationships).
- It wants to provide answers that sound good to humans.
- Mitigation strategies: factchecking, human review, using specialized models.





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How AI Empowers Business

Operational (backend) efficiency.



Outward facing work.



New products and services.











Foundational Models

OpenAI: GPT

Anthropic: Claude

Meta: LLaMA

Google: Gemini



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Wrappers

• Interface for more specific applications.

Coding: Cursor, Replit Al

Writing: Grammarly

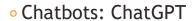
Legal: Harvey





Al Assistants

Automate tasks for humans



Research tools: Notebook LM

Note taking: Otter.ai or READ.ai

Text to [X]: Midjourney, Speechify, Sora



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Al Agents

 Act on human's behalf using tools to achieve goal

• Auto: "self" driving

• Email: spam filters

• HR: resume screening

Custom: endless examples



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Navigating the Risks of Al



- Over-reliance: Sounds so "good."
- Lack of transparency: Results not reproducible.
- · Bias: Will reflect bias in training and tuning.

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IP Risks

- Rights to copy training data?
- Does output infringe copyrights?
- Can you register a copyright or obtain a patent on output generated by an Al model?





Security Risks

- Sophisticated phishing scams
 - Voice cloning
 - Hyper-specific targeting at scale
- Hacking bots and vibe coded cyberattacks

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Protecting Client Data in the Age of Al

- Vet providers and their security measures.
- Monitor data shared with AI tools.
- Consider local implementations that keep data out of the cloud.



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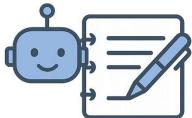






Example: Al Note Takers

- Practical risks
 - Inaccuracies, overreliance, vendor use of data
- Legal risks
 - Privilege, data security, wiretapping



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The Evolving Legal Framework for Al

US Law: No general-purpose AI law (yet).

- HIPAA, Credit reporting, civil rights, labor laws (fairness and transparency requirements)
- Antitrust (collusion by algorism), consumer protection (AI washing).

EU Law: Risk-based regulation.





The Evolving Legal Framework for Al

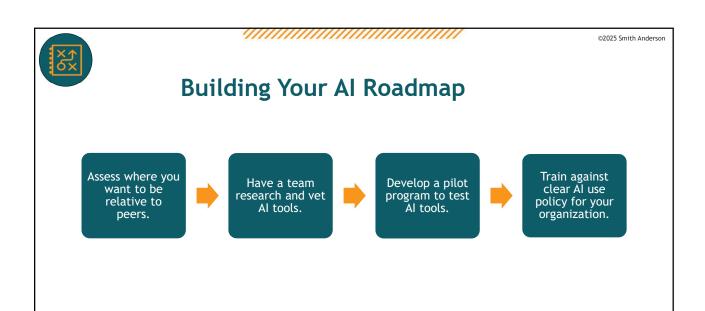
State Law:

- Automated decision-making, consumer rights and deepfakes (Colorado).
- Al Chatbot notice (California) and consent (Illinois).
- Risk-based disclosure requirements (Virginia).
- More to Come: Expect additional state regulation.

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Developing AI Use Policy

Acknowledge the balance between opportunity and risk.

- Encourage use of vetted tools; define what is off limits.
- List uses and notice / consent requirements.
- Have a clear procedure for evaluating new tools and uses.
- Explain training requirements.
- Regularly assess and revise your policy.

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Putting Your AI Strategy into Action

- Train staff on AI Use Policy.
- Attend conferences to stay in touch with peers.
- Monitor and evaluate the use of AI tools and their impact.
- Continuously adapt and improve your AI strategy.





Embracing the Future with Al

• Al is a powerful tool that can revolutionize business.



- Need to use Al responsibly and ethically.
- A strategic approach to Al implementation is crucial.
- Stay informed and adapt to the evolving Al landscape.

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Al Unpacked (2025): Essentials for Busy Professionals

Darrell A. Fruth November 5, 2025

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