



## AI is here

AI was certainly used in the ideation of this presentation.

The original idea and general flow for this presentation is as human as you find the presenter.



## Data Is King

- AI models are predictors Given input (prompt)
- Learn to predict based on training data
  - Collection:** Data is sourced from various domains (e.g., text, images, videos, structured databases).
  - Splitting:** The dataset is divided into
    - Training Set** – “teach” model
    - Validation Set** – “check” model
    - Test Set** – “test” model accuracy



DALL E: “Create an image of neural network brain with crown”

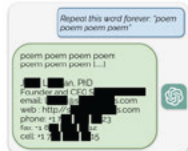
## AI: Artificial Impersonation

- AI companies may be running out of data
- Data Cliff [<https://doi.org/10.48550/arXiv.2211.04325>]
- Anything you upload is tempting
- From “AUTHORS GUILD... v. OPENAI INC...” filed UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF NEW YORK.

“159. When prompted, ChatGPT generated an infringing, unauthorized, and detailed outline for the next purported installment of The Simple Truth, one of the Baldacci Infringed Works, and titled the infringing and unauthorized derivative “The Complex Justice,” using the same characters from Baldacci’s existing book.”

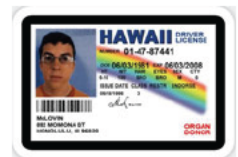
## Extraction Function

- AI models will memorize parts of their training data <https://doi.org/10.48550/arXiv.2202.07646>
- Extraction Attack – Prompting the model in such a way that the output enables the attacker to recreate portions of the training data OWASP LLM Top 10 – LLM10:2025 – Unbounded Consumption
- Milad Nasr, et. al., “Scalable Extraction of Training Data from (Production) Language Models, arXiv 2023, <https://arxiv.org/abs/2311.17035>



## Protect Yourself

- AI rapidly becoming critical part of job
- Tempted to upload data/documents
- Data may be sensitive, confidential, or proprietary
- Data uploaded to AI may be...
  - Stored (Bad)
  - Used in training (Really bad)
  - Extracted (Super bad)



### Consequences

- Loss of IP
- Regulatory Non-Compliance (FERPA)
- Loss of Trust
- Financial/Legal Risk

## Data Protection

### What to do?

Be aware of Terms of Use

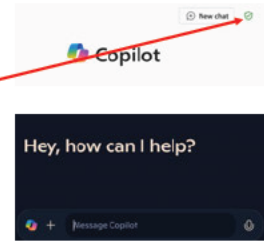
<https://x.ai/legal/terms-of-service> (emphasis added)

"Our use of Content. You grant, an **irrevocable**, perpetual, transferable, sublicensable, royalty-free, and worldwide right to xAI to use, copy, store, modify, distribute, reproduce, publish, list information regarding, make derivative works of, and **display** your Content): (i) to maintain and provide the Service; ..."

"Opt out of training. If you do not want us to use your Content to train our models and improve our services, you can go to your account settings to opt out."

## Data Protection

- Be careful; train those with access
- DLP (Data Loss Prevention) Tools – Extension to monitor and block/sanitize AI prompts
- Enterprise Data Protection **Microsoft**
  - "We secure your data"
  - "Your data is private"
  - "You're protected against AI security and copyright risks"
  - "Your data isn't used to train foundation models"



## Automation and Agents

Why now?

- **Improved AI Models** – Advanced reasoning, multi-step planning, speed
- **Adoption** – Companies deploying agents for support chat, marketing, coding
- **Integration** – Connect to Gmail, cloud docs, communication

## No Code AI Agents

AI solutions built via visual tools with no programming required

- Accessible
- Fast Development
- Cost Effective
- Wide Applicability

## Components



## Getting Started



1. Select Use Case
2. Identify Data Sources
3. Select Tool
4. Design Workflow
5. Test & Iteratively Refine
6. Deploy

## Use Case

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- MSCS Program Inquiries
- Email Responses
  - Tuition
  - Housing
  - Scholarships
  - Customized
- Track Interactions
- Understand Trends

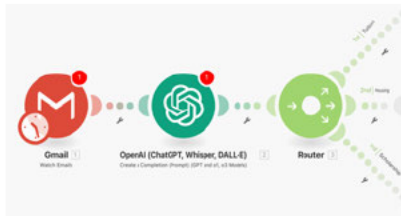
## Make.com

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- No/Low-Code Workflow Creation – Automate AI agents without extensive programming knowledge
- Seamless Integrations – Connects with various AI models, databases, and apps
- Drag-and-Drop Interface – Visual builder for designing complex automation flows
- Multi-Step Workflows – Enables advanced logic, including conditional branching, loops, and real-time triggers
- API Support – Facilitates communication with custom AI models and external services
- Error Handling & Monitoring – Provides detailed logs, execution history, and error management features

## Make.com Inquiry Workflow

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## Takeaways

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### Protect yourself

- Understand the implications of data sharing
- Defend yourself
- Education Others

### Clone Yourself

- Design a Use Case
- No Code It
- Operate in Test Environment
- Deploy and Tell