AI in Education

Promise, Potential and Pitfalls
Agenda

Grounded understanding
Promise, Potential and Pitfalls
Hands On
Level Setting
Number of Years to Reach 100 Million Users

- **ChatGPT**: 64 Days
- **TikTok**: 2 Years
- **Instagram**: 4 Years
- **WhatsApp**: 5 Years
- **Twitter**: 6 Years
- **YouTube**: 7 Years
- **Facebook**: 4 Years

*Note: The graph shows the number of years it took for each service to reach 100 million users.*
<table>
<thead>
<tr>
<th>Feature</th>
<th>Machine Learning</th>
<th>Artificial Intelligence</th>
<th>Large Language Models (LLMs)</th>
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<tr>
<td>Definition</td>
<td>A subset of AI that allows machines to learn from data and improve their performance over time without being explicitly programmed.</td>
<td>A broad field of computer science that seeks to create intelligent agents, which are systems that can reason, learn, and act autonomously.</td>
<td>A type of AI that is trained on a massive amount of text data to generate and understand human language.</td>
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<td>Goal</td>
<td>To enable machines to learn from data and make predictions or decisions without being explicitly programmed.</td>
<td>To create intelligent agents that can perform tasks that would normally require human intelligence.</td>
<td>To generate and understand human language at a human-like level.</td>
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<td>Methods</td>
<td>A variety of algorithms and techniques, such as supervised learning, unsupervised learning, and reinforcement learning.</td>
<td>A variety of approaches, including machine learning, natural language processing, and computer vision.</td>
<td>LLMs are trained using a variety of deep learning techniques, such as the transformer architecture.</td>
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<td>Applications</td>
<td>Machine learning is used in a wide range of applications, including fraud detection, medical diagnosis, product recommendation, and self-driving cars.</td>
<td>Artificial intelligence is used in a variety of applications, including robotics, natural language processing, and machine translation.</td>
<td>LLMs can be used for a variety of tasks, such as generating text, translating languages, writing different kinds of creative content, and answering questions in an informative way.</td>
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Current LLM as a Garden Path

Human Brain as a Complex System
Promise
give good grounds for expecting
(a particular occurrence or situation).
"forthcoming technology promises to
change how we live and work."
Promise
Promise

Disruption is inevitable.
Pitfalls
If men learn this, it will **implant forgetfulness** in their souls; they will **cease to exercise memory** because they rely on that which is written, calling things to remembrance no longer from within themselves, but **by means of external marks**.

- Plato
Potential
Teacher Examples

DATA ENHANCED PLC

AI ASSISTED INSTRUCTIONAL DESIGN

PERSONALIZED/DIFFERENTIATED MATERIALS

PACING GUIDES
STUDENT EXAMPLES

Schedule/Time Management
Idea Generation
1st Drafts
Feedback
Strategies (use with teacher guidance)
Tutoring
Hi Friends!
How do you feel about working the dark magic and helping your lowly English teacher peeps understand our data better? :)

Here are the quizzes and spreadsheets of data from our 2023 Fall Grammar Pre-assessment. Can we throw these spreadsheets into Chatgpt and ask it to share that same report you ran as an example a few weeks ago?

Our PLC team has a pull-out day next Monday, so it would be so awesome to have this information by then (if possible!).

Happiest Wednesday,
Jen