ARTIFICIAL INTELLIGENCE (AI) 101

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TruckIT
WHAT IS AI?

ARTIFICIAL INTELLIGENCE
A technique which enables machines to mimic human behaviour

MACHINE LEARNING
Subset of AI technique which use statistical methods to enable machines to improve with experience

DEEP LEARNING
Subset of ML which make the computation of multi-layer neural network feasible
AI IS A TOOL

AI is...

- **Responsive**: AI can engage in interactions from humans or other machines, interpreting meaning and formulating an appropriate response.
- **Decisive**: AI can interpret supplied information and take appropriate action to achieve its mandated goals.
- **Adaptive**: AI can internalize new information and adjust its behaviors accordingly to maximize its effectiveness.
- **Independent**: AI can conduct most of its decision-making process without the need for human input.
USED IN MANY DOMAINS

- Virtual Assistant
- Social Media
- eCommerce
- Transport
- Healthcare
- Financial Services

- Intelligent agents, natural language processing etc.
- Sentiment analysis, filtering spam etc.
- Customer support, product recommendation, advertising.
- Safety monitoring, air traffic control etc.
- Drug discovery, disease diagnosis, robotic surgery
- Algorithmic trading, portfolio management, fraud detection
### EVERYDAY EXAMPLES

<table>
<thead>
<tr>
<th>Alexa, Siri, and Cortana</th>
<th>Google Maps</th>
<th>UBER</th>
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<tbody>
<tr>
<td><strong>Voice recognition</strong></td>
<td><strong>Analyses</strong> millions of smartphone location data points to suggest fastest travel routes.</td>
<td><strong>ML</strong> is used to determine arrival times, pick-up locations, and UberEats deliveries.</td>
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<td><strong>systems use ML and AI to imitate human interaction.</strong></td>
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<th>Facebook</th>
<th>Gmail</th>
<th>Spotify</th>
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<td><strong>ML image recognition algorithms used to automatically tag your friends in photos.</strong></td>
<td><strong>Mines email text to provide three automatic responses to your emails.</strong></td>
<td><strong>Recommends related songs based on music you have liked and disliked.</strong></td>
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SO... WHAT'S THE POINT OF THESE SYSTEMS?

- Enhance user experiences
- Find the right information quickly
- Accomplish more in shorter periods of time
- Automate
EXISTING AI SYSTEMS IN CONSTRUCTION

- Credit to A/C
- Order Status
- Order Cancellation
- Invoice Reconciliation
- Refund Processing
- Service Upgrade
- Account Management
- Inventory Check
EXISTING AI SYSTEMS IN CONSTRUCTION
WHERE'S IT GO FROM HERE?
WHERE’S IT GO FROM HERE?
E-TICKETING
DELIVERY AND ROUTE OPTIMIZATION
DELIVERY AND ROUTE OPTIMIZATION

1 mile is worth $50M*  
1 minute is worth $14.6M*  
1 minute of idle time is worth $515K**
DELIVERY AND ROUTE OPTIMIZATION

Driver's Solution

ORION Solution

134 miles

104 miles

Savings of $1.5B
DELIVERY AND ROUTE OPTIMIZATION
ICONS & ACCENTS

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THANK YOU!
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