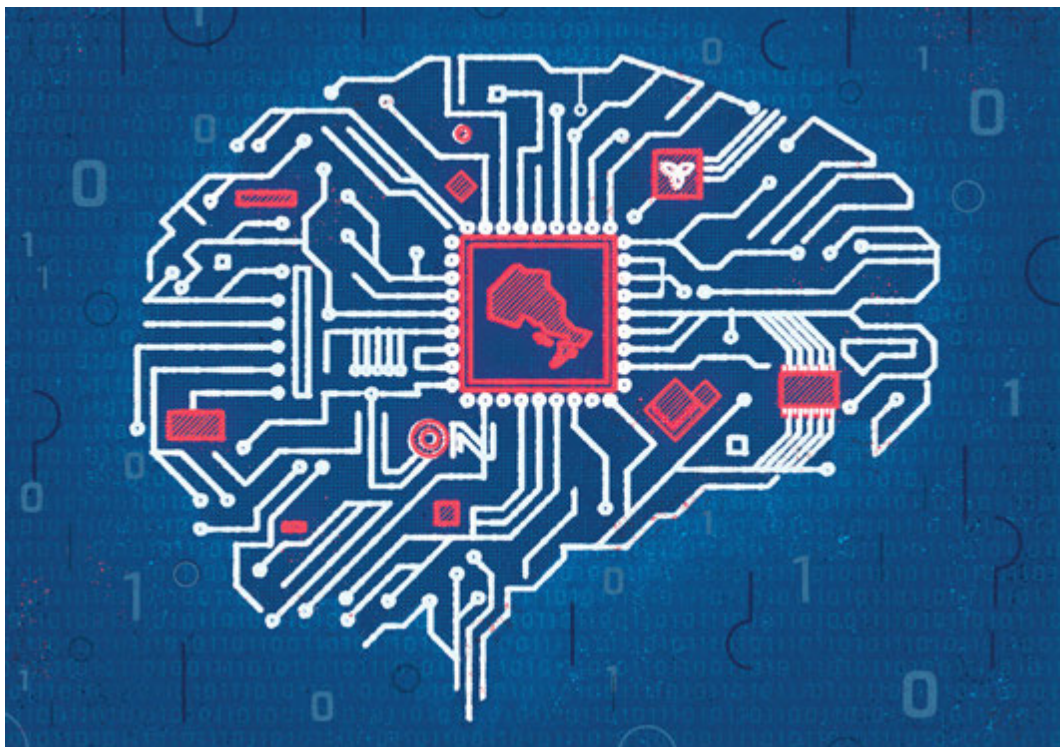


FROM PREDICTION TO REALITY

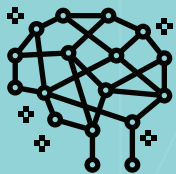
Ontario's AI opportunity



SOLIDIFYING ONTARIO'S PLACE IN THE GLOBAL ARTIFICIAL INTELLIGENCE ECOSYSTEM



WHAT IS ARTIFICIAL INTELLIGENCE (AI)?



Artificial Intelligence

In the broadest sense, AI is the ability of a computer to perform tasks commonly thought of as intelligent or human. AI encompasses a number of techniques to simulate intelligence, which range from traditional, rule-based programs to algorithms that learn and improve to develop an area of expertise.



Machine learning

Feeds data into algorithms, allowing it to learn from examples and make predictions about new data.



Neural network

Subset of machine learning algorithms. Information passes between branches or layers in a similar way to neurons in the brain. These networks calculate probabilities of results given a set of inputs.

CANADA HAS A GROWING AI ECOSYSTEM BUT IT MUST CONTINUE TO MAKE INVESTMENTS TO OVERCOME THE COSTS AND MAXIMIZE THE BENEFITS OF AI:

THESE ARE THE POTENTIAL COSTS OF AI:



Risks of inequality from job loss and displacement



Large firms may crowd out small players



Ethical issues such as privacy

BUT THEY ARE OUTWEIGHED BY THE BENEFITS:

THE INCREASED PRODUCTIVITY TO THESE INDUSTRIES:



Health care



Financial services



Manufacturing



...& more

FOR CONSUMERS, GOODS & SERVICES WILL BE:



Lower in cost



More personalized

RECOMMENDATIONS ON HOW ONTARIO & CANADA CAN WIN IN THE GLOBAL AI ECOSYSTEM:

- 1** Create a regulatory sandbox for innovation
- 2** Balance trade policy to protect consumers
- 3** Retain skilled talent
- 4** Align skill sets learned in post-secondary institutions to AI needs
- 5** Understand the trade-offs involved in pursuing AI