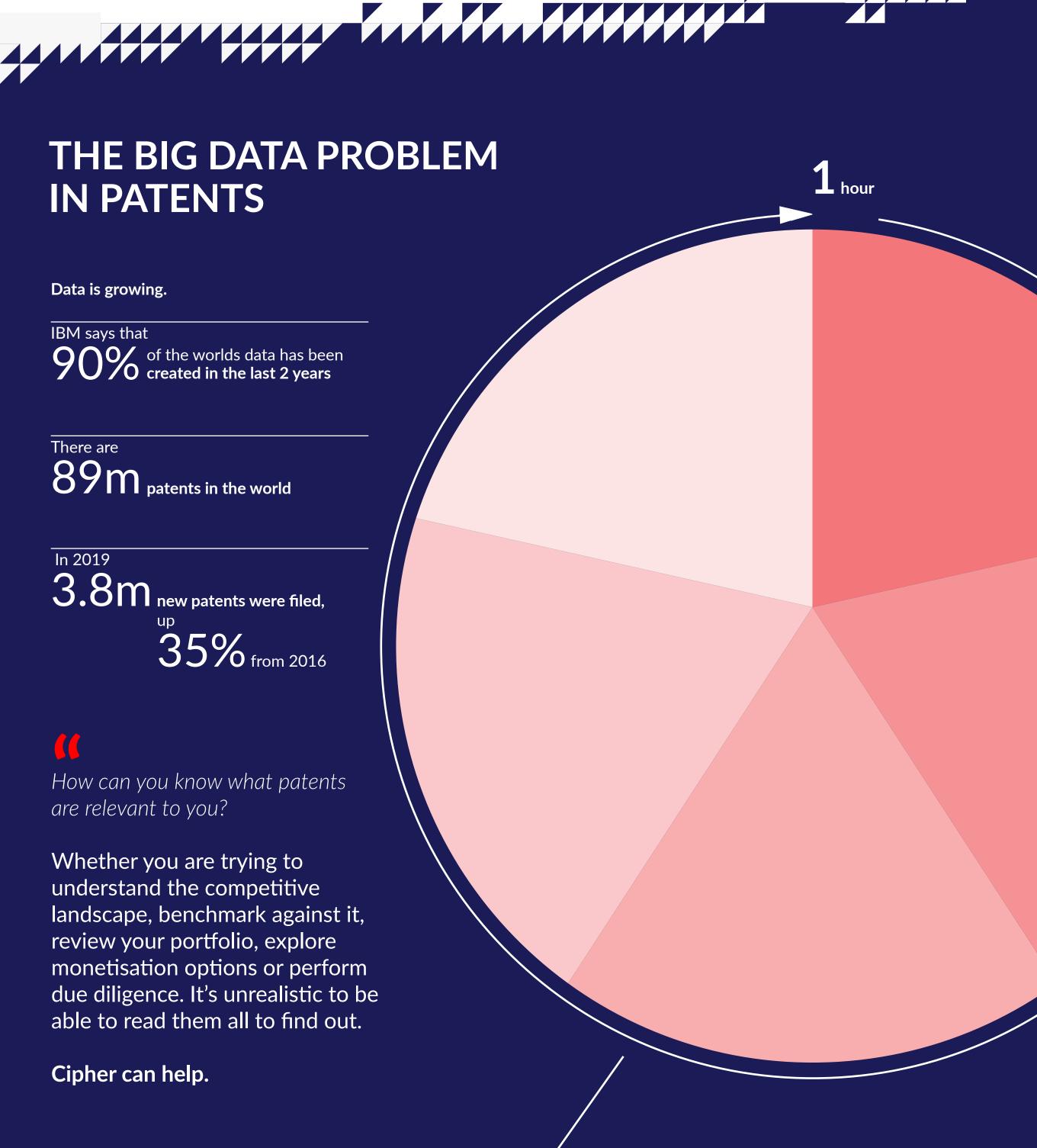


CLASSIFYING PATENTS USING MACHINE LEARNING CIPHER CLASSIFICATION

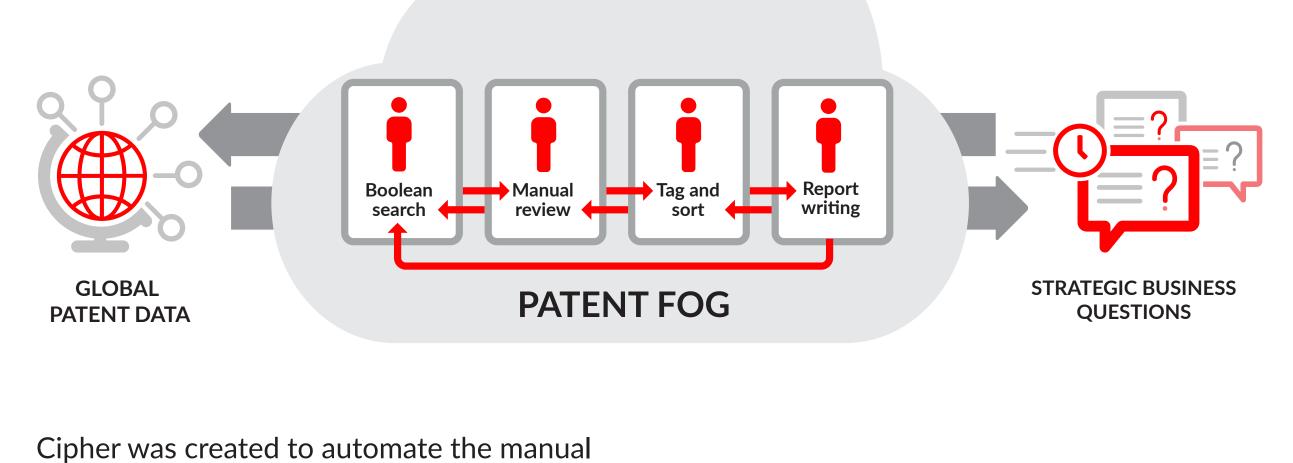


WHY CIPHER?

A human can read 5 pat

Cipher can read 61 million patents an hour

Manually classifying patents is too painful.

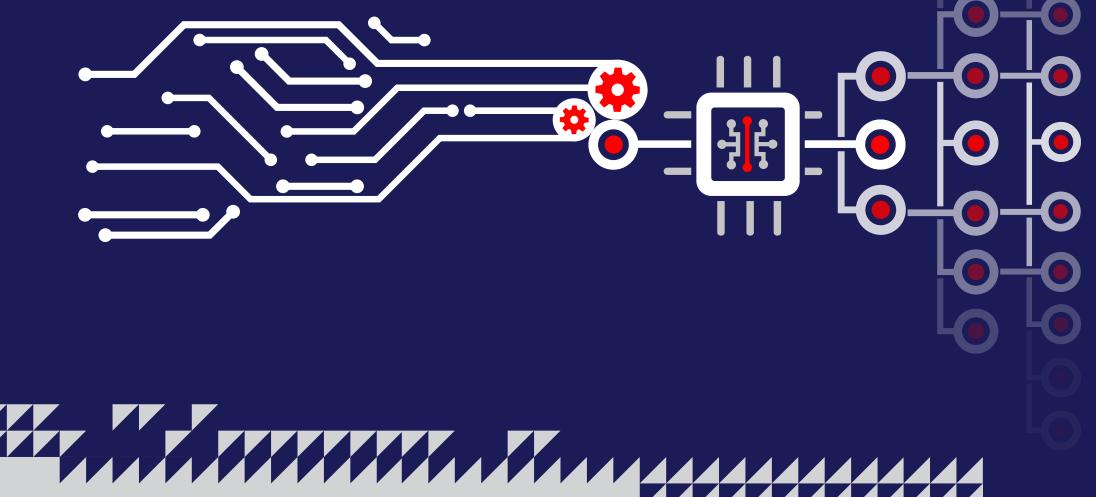


process of sorting, tagging and classifying

patents to your view of the world.

IN AN HOUR BECAUSE IT USES MACHINE LEARNING

CIPHER CAN CLASSIFY 61 MILLION PATENTS



Machine learning is a way to achieve human-like results, by training algorithms how to

WHAT IS MACHINE LEARNING?

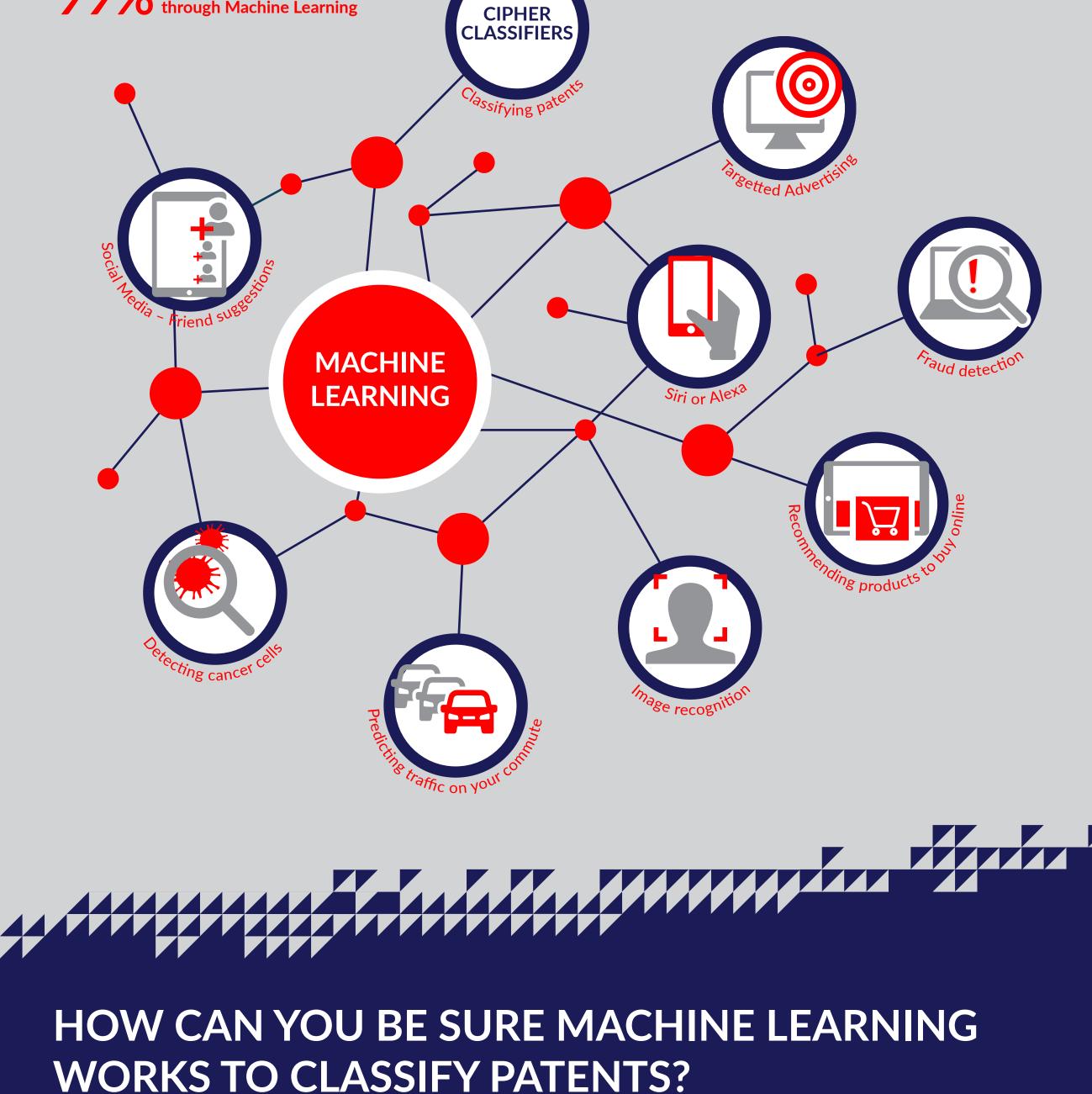
Machine Learning is everywhere today

Gmail have stopped

99% of spam through Machine Learning

perform complex tasks instead

of explicitly coding them.



Machine Learning algorithm performs when classifying patents? ... We need to test it.

How can we **trust** the machine?

How can we see if the Cipher

This is what we did to test the Cipher algorithm: 1. The patents from the data sets were manually sorted 2. A small section of the data sets were used to train the Cipher algorithm, then

HOW TO ROBUSTLY TEST THE CIPHER

Independent – the manual sorting of the patent data sets was done by an independent consultant

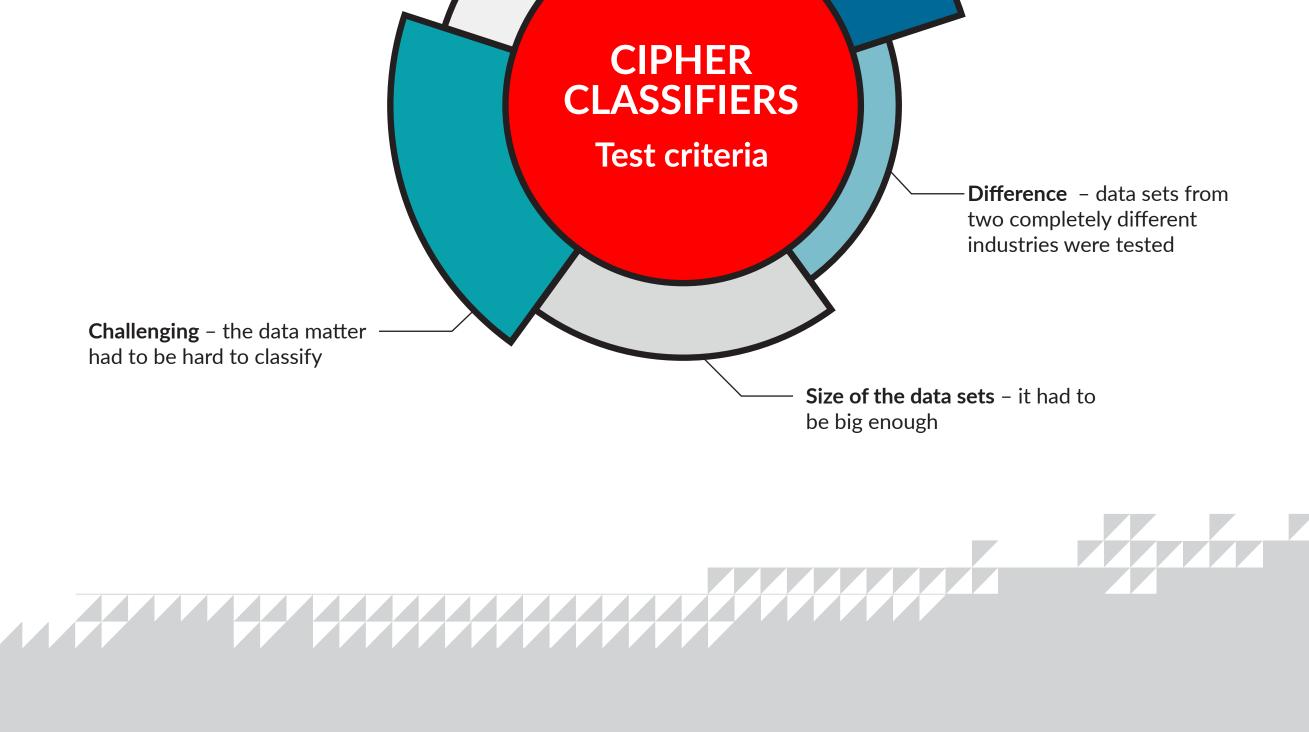
The following criteria had to be met to

3. The results delivered by the Cipher

manual results.

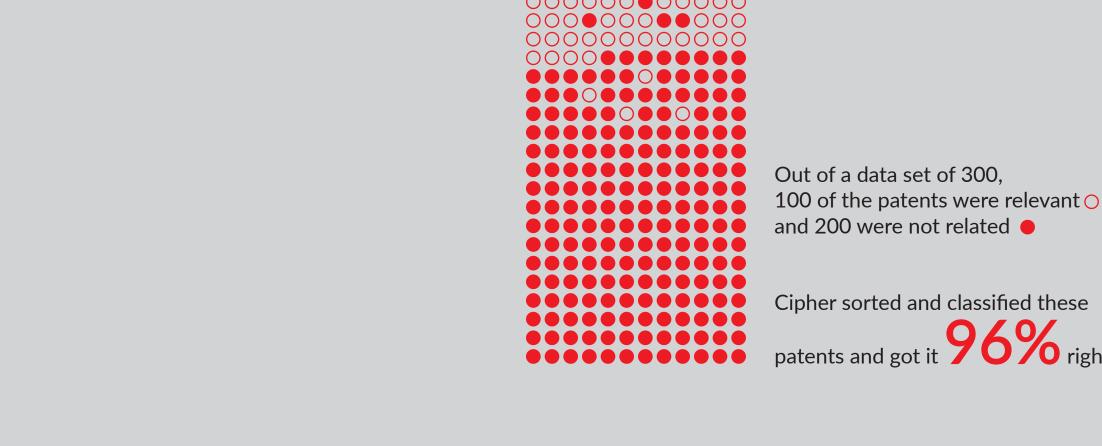
deliver a robust test:

algorithm were compared against the



ALGORITHM TEST RESULTS

THE CIPHER MACHINE LEARNING



Under robust testing the Cipher algorithm

to classify patents performs



_exisNexis

Scope - the data sets used

needed to be specific in

their scope