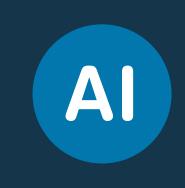| INPUT	PROCESS	OUTPUT
A question spoken into a smartphone	Recognise an image and extract features to identify if the image matches users on its database	Ask the customer a relevant follow-up question
A question is spoken into a smartphone virtual assistant to turn off the lights in your home	Recognise a thumbprint (image) and extract features to identity if the image matches the saved image	Translate the word or phrase into the selected language
Your past viewing data and data from users with a similar profile	Recognise speech and predict what you are asking	Drive a car safely without the help of a human driver

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INPUT	**PROCESS**	**OUTPUT**
Traffic data, data from on-board sensors and online mapping data	Predict the best route to navigate to the desired location and use data to predict when to stop, slow down, speed up, change lanes and follow the route	Enable access to a smartphone if thumbprint (image) is recognised with a very high level of confidence

INPUT	**PROCESS**	**OUTPUT**
Thumbprint to unlock a smartphone	Recognise text and predict possible search terms	Suggest three options of possible words the user wants to type

INPUT	**PROCESS**	**OUTPUT**
An image uploaded to a social media site by a user	Predict what video clips you might want to view	Suggest a webpage with information relevant to your question

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INPUT

Talk to an online chatbot to ask about a product

PROCESS

The system uses past emails you labelled as spam and classifies text of emails and recognises the email as spam

OUTPUT

Automatically turn off lights

INPUT

Text typed into a search engine

PROCESS

Recognise speech and predict what you are asking

OUTPUT

Tag the photo based on a matched user's profile name

INPUT

Speak into a smartphone microphone

PROCESS

Recognise speech and predict what word or phrase the user wants translated

OUTPUT

Present a list of possible search terms

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INPUT	PROCESS	OUTPUT
Text typed into a text messaging app	**Recognise text and predict possible words the user wants to type**	**The system blocks the email from your inbox**
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INPUT	PROCESS	OUTPUT
An email is sent to your email address	**Recognise speech and predict what the customer wants information about**	**Recommend a video clip on YouTube**
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