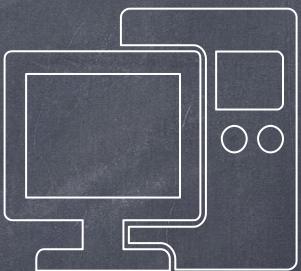
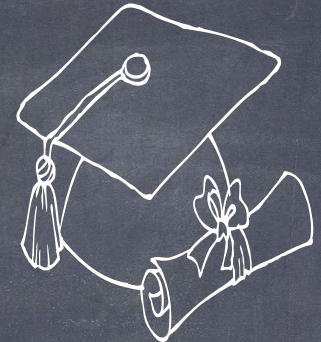
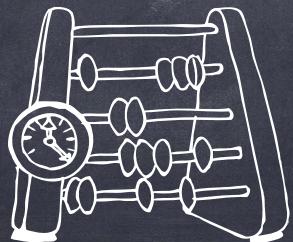


# ARTIFICIAL INTELLIGENCE

: Deepankar Sharma



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04	HOW FAR WE ARE UPTO	P04



# INTELLIGENCE

1. How to determine the most INTELLIGENT GUY in the class?

→ Topper

→ he scored more than anyone



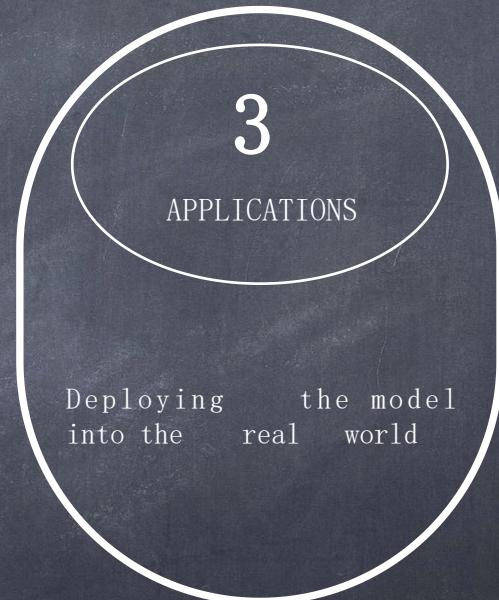
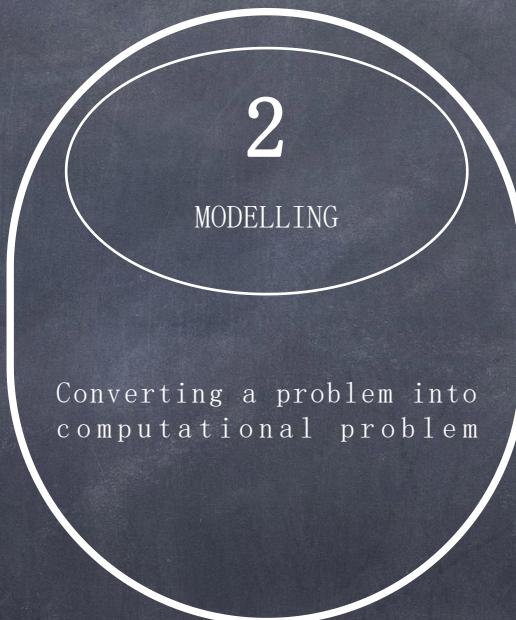
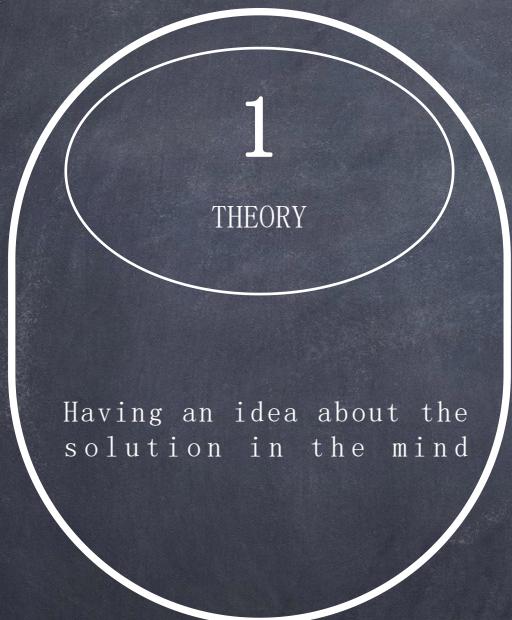
2. How about a thermoflask

→ can be intelligent too ^\_^

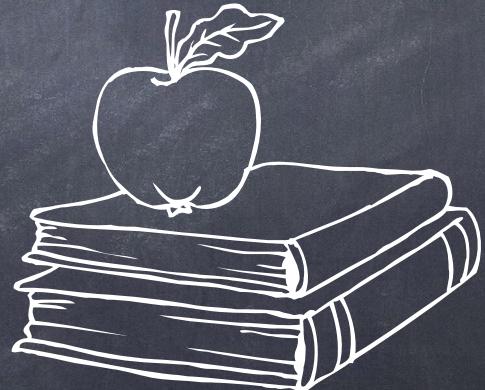
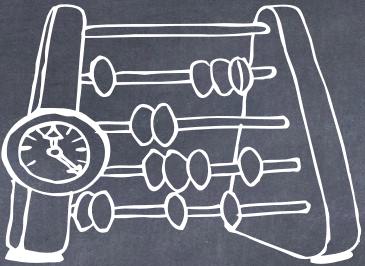
→ keeps water hot better than anyone

# THEORY VS MODELLING VS APPLICATIONS

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# INTUITION OF ARTIFICIAL INTELLIGENCE



# ALAN TURING & THE FAAMOUS TURING TEST



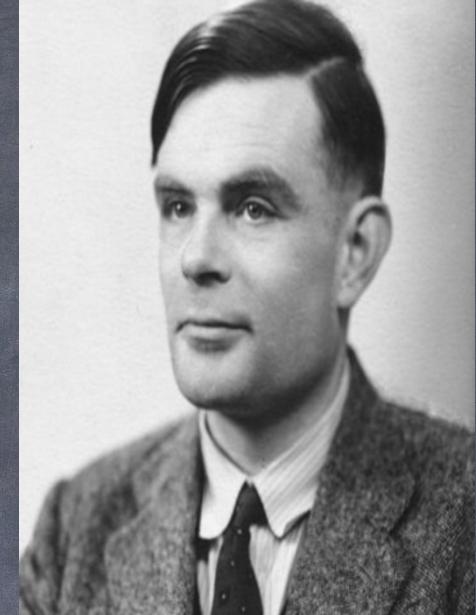
ALAN TURING  
FATHER OF COMPUTER SCIENCE

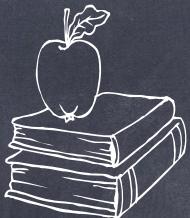


‘ I consider to propose the question : CAN  
MACHINES THINK? ’

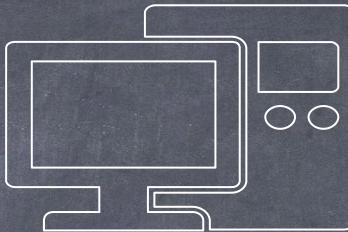


TURING TEST  
To check wheather a machine can think ?



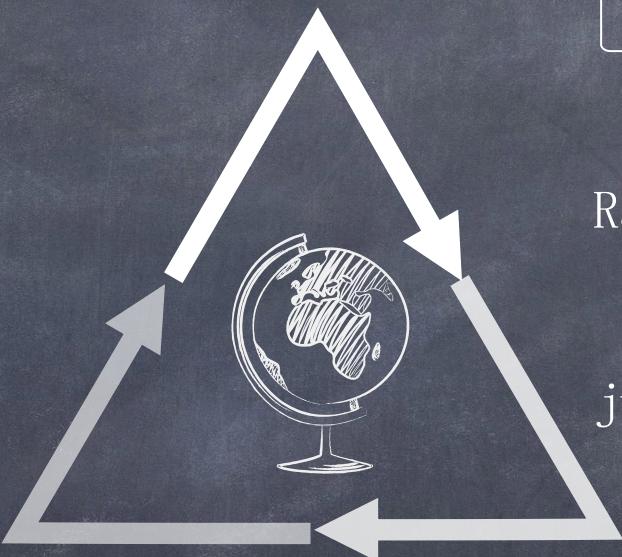


# What is AI ?



Thinking and acting  
like HUMANS ?

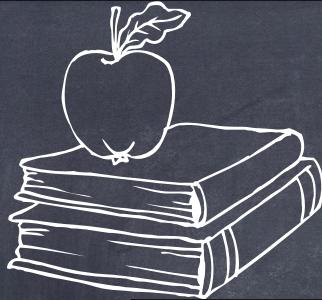
-> are humans  
always intelligent?



Rationality in THINKING ?  
-> Emotions cloud  
judgements!!!!!!!!!!

CAN solve Pretty much every  
problem in the world?

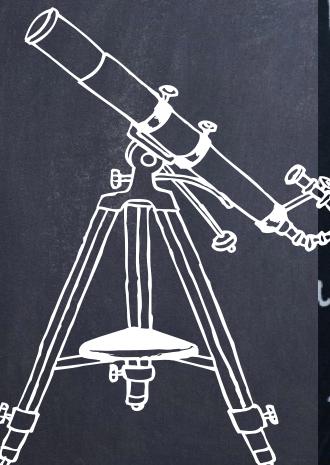
-> trying to make our own god xD



# AI HYPOTHESIS

	Strong artificial intelligence	Weak artificial intelligence
Definition	<ul style="list-style-type: none"><li>the form of artificial intelligence, which has the same intellectual abilities as human, or even surpasses him in it</li></ul>	<ul style="list-style-type: none"><li>Weak AI is generally developed or used for specific application domains.</li><li>In a standard work on artificial intelligence, this is formulated as follows: "The assertion that machines could possibly act intelligently (called, weakness, act as if they are intelligent) is called the, weak AI 'hypothesis ...'"</li></ul>
Capabilities and Domains	<ul style="list-style-type: none"><li>Logical thinking</li><li>Making decisions in case of uncertainty</li><li>To plan</li><li>To learn</li><li>Communication in natural language</li><li>Use all these abilities to achieve a common goal</li></ul>	<ul style="list-style-type: none"><li>Expert systems</li><li>Navigation systems</li><li>Voice recognition</li><li>Character recognition</li><li>Suggestions for corrections in searches</li></ul>

# OPTIMISM



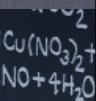
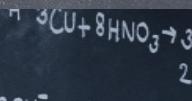
$$a^2 - x^2 dx = \frac{\pi a^2}{4}$$



$$h(C) = 84$$



$$25$$



$$[f(x) \pm g(x)] = l \pm m$$

$$f(x) \leq 5$$

$$x^2 - 4x + 5 \leq 5$$

$$x^2 - 4x \leq 0$$

$$\sqrt[n]{a^m} = a^{\frac{m}{n}}$$

$$z_1 = \frac{a \begin{vmatrix} D_1 & B_1 \\ D_2 & B_2 \end{vmatrix} - b \begin{vmatrix} D_1 & A_1 \\ D_2 & A_2 \end{vmatrix}}{a^2 + b^2 + c^2}$$

$$M = 10$$

$$V_F = \frac{V_F}{V_F}$$

$$[f(x) \cdot g(x)] = l \cdot m$$

$$x^2 - 4x \leq 0$$

$$\sqrt[3]{a^3 \sqrt{a}} = \sqrt[3]{a \cdot a^{\frac{1}{3}}}$$

$$= \sqrt[3]{a^{\frac{3}{3}} \cdot a^{\frac{1}{3}}}$$

$$= \sqrt{5 + \sqrt{4 \cdot 6}}$$

$$\frac{g_1}{g_2} = \left( \frac{R_2}{R_1} \right)^2 = \left( \frac{R_1 + h}{R_1} \right)^2$$

$$E = mc^2$$

$$2^{10}$$

$$\frac{1}{f(x)} = \frac{1}{l}$$

$$20 \rightarrow$$

$$6 \rightarrow$$

$$24 = \sqrt[3]{a^3 \sqrt{a}}$$

$$= \sqrt[3]{a^{\frac{3}{3}} \cdot a^{\frac{1}{3}}}$$

$$= \sqrt{5 + \sqrt{4 \cdot 6}}$$

$$\frac{g_1}{g_2} = \left( \frac{R_2}{R_1} \right)^2 = \left( \frac{R_1 + h}{R_1} \right)^2$$

$$E = mc^2$$

$$\underline{1+3+3+6+8+9=5}$$

$$126 = 6xy$$

$$a_n = \frac{1}{2^{n-1}}$$

$$= \frac{1}{2^9} = \frac{1}{512}$$

$$A = \pi r^2 h$$

$$2+4+4^6+8+12=30$$

$$2x + 2y = 20$$

$$= \frac{1}{2^9} = \frac{1}{512}$$

$$A = \pi r^2 h$$

$$= \frac{1}{2^9} = \frac{1}{512}$$

$$A = \pi r^2 h$$

$$= \frac{1}{2^9} = \frac{1}{512}$$

$$E = mc^2$$

$$b^2 = c^2$$

$$\sin B = \frac{4\sqrt{3}}{x}$$

$$\cos(B) = \frac{y}{x}$$

$$(100^2)a + 100b -$$

$$10000a + 100b -$$

$$100000a + 100b -$$

$$1000000a + 100b -$$

$$10000000a + 100b -$$

$$\sin 60^\circ = \frac{\sqrt{3}}{2}$$

$$\cos(60^\circ) = \frac{y}{x}$$

$$10000000a + 100b -$$

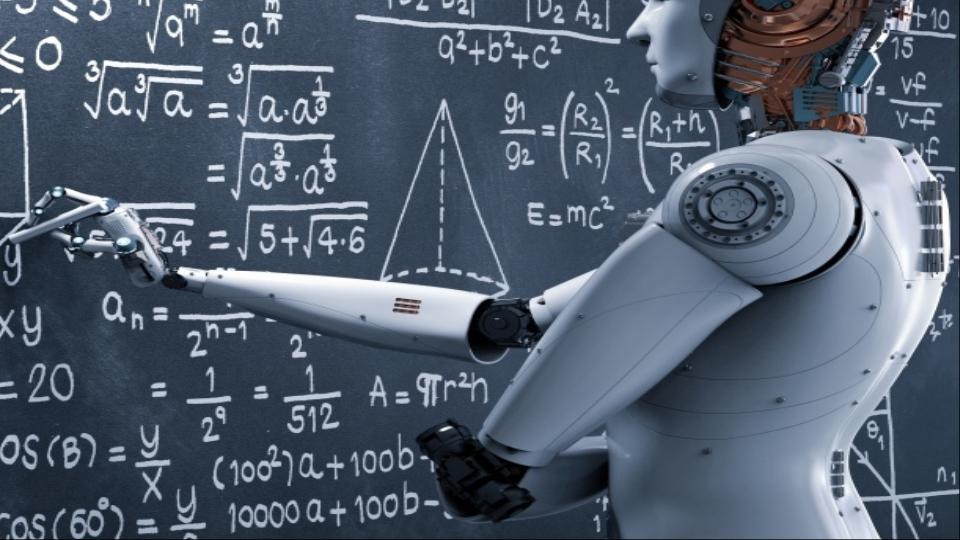
$$100000000a + 100b -$$

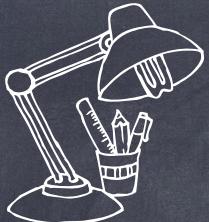
$$1000000000a + 100b -$$

$$10000000000a + 100b -$$

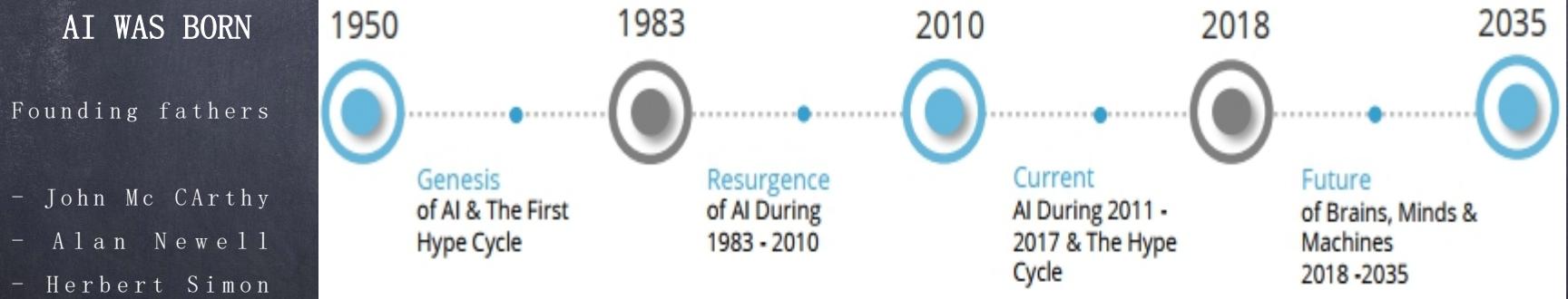
$$100000000000a + 100b -$$

$$1000000000000a + 100b -$$





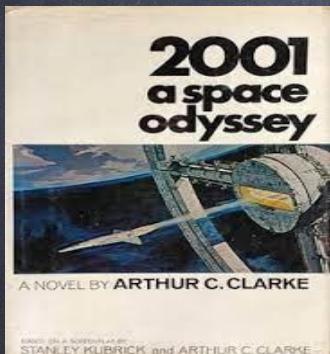
# AI REASEACHERS ARE HIGHLY OPTIMISTIC





# Optimism in MOVIES

AI Being The Core Concept of Every sci-fi  
so many ai based Blockbusters



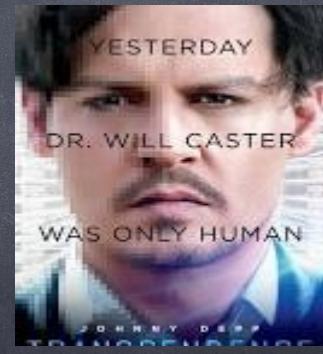
1968



1984



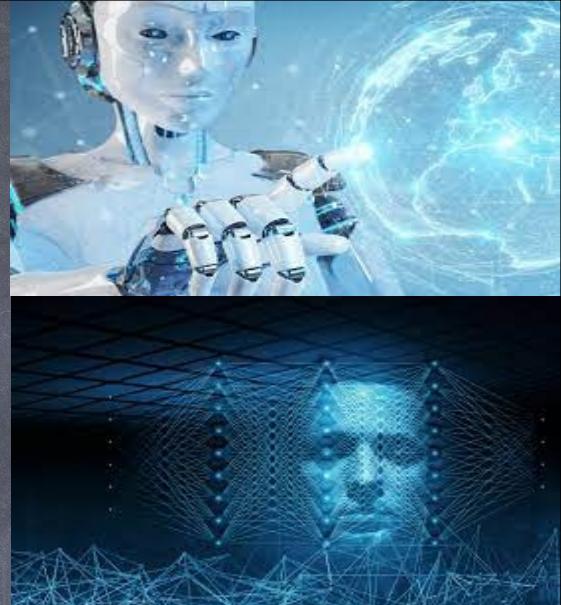
1994



2014



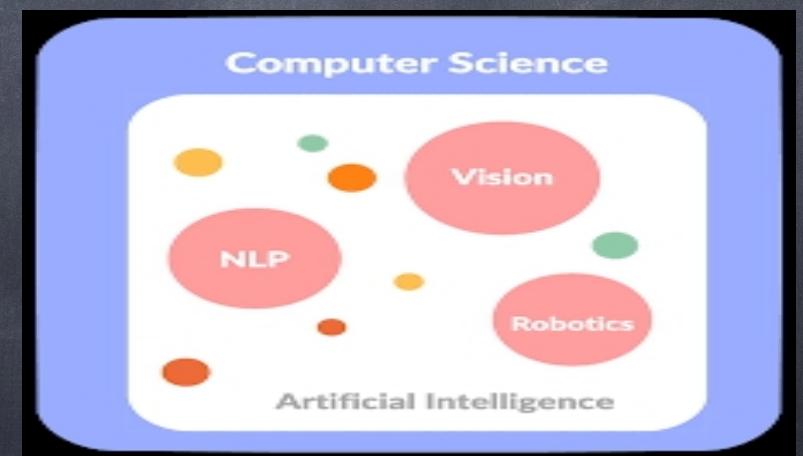
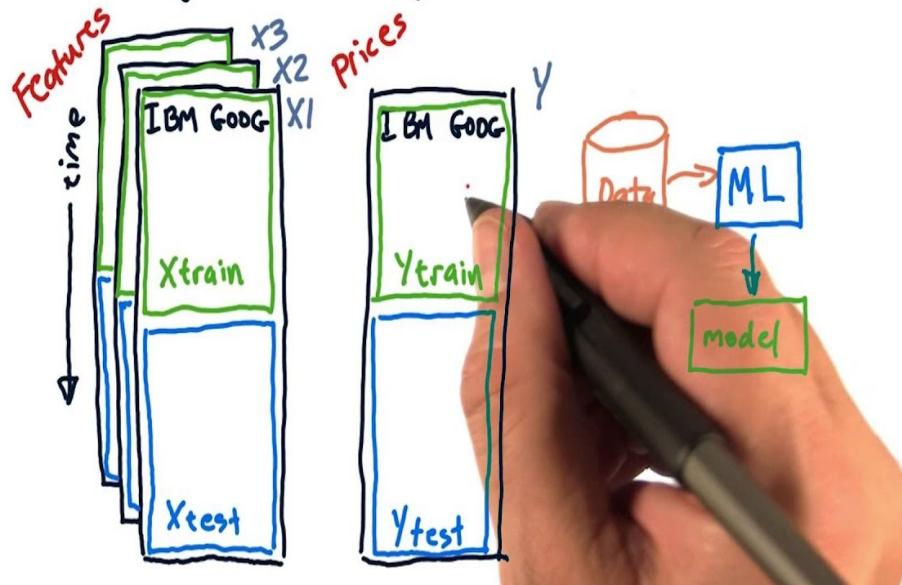
# THE ROAD SO FAR





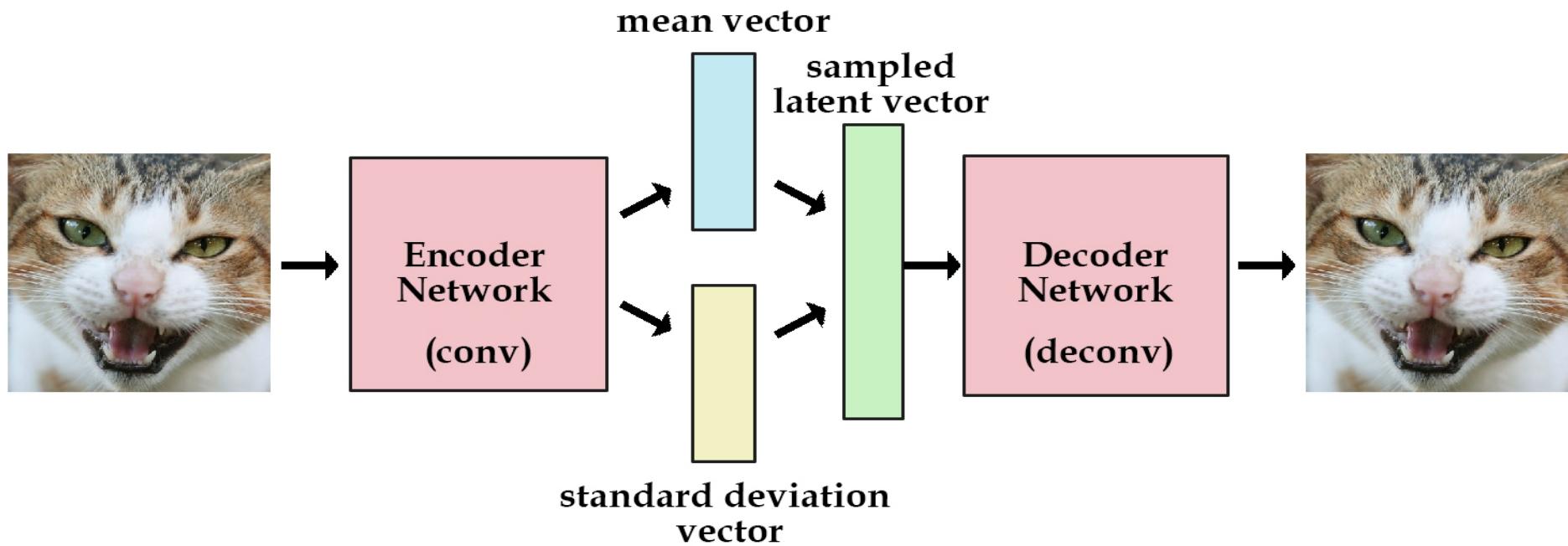
# NLP SML

## Training and testing



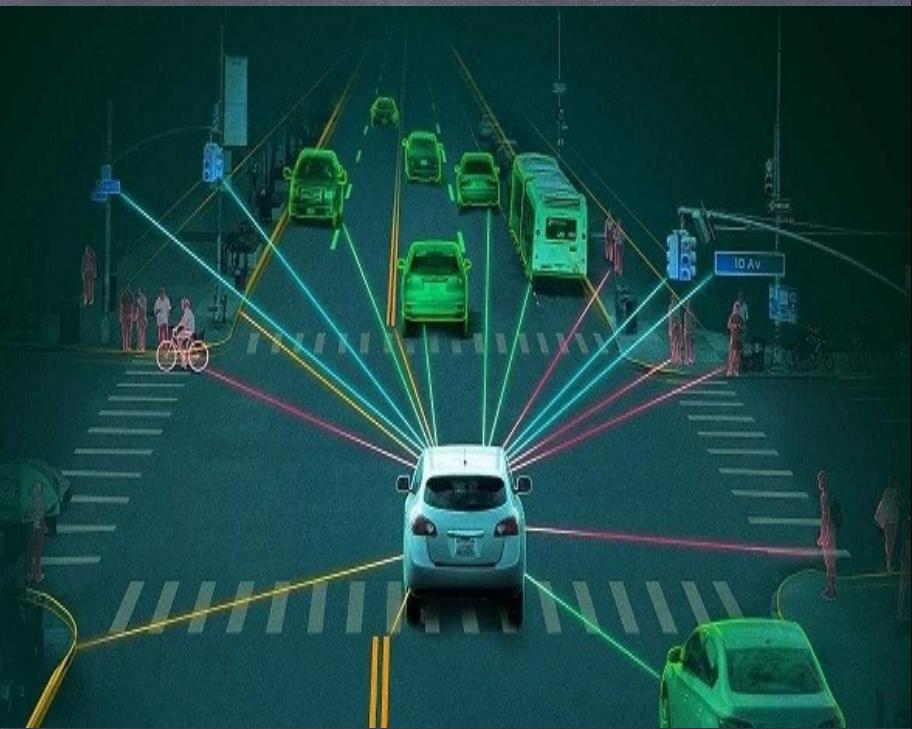


# CNN\_VAE

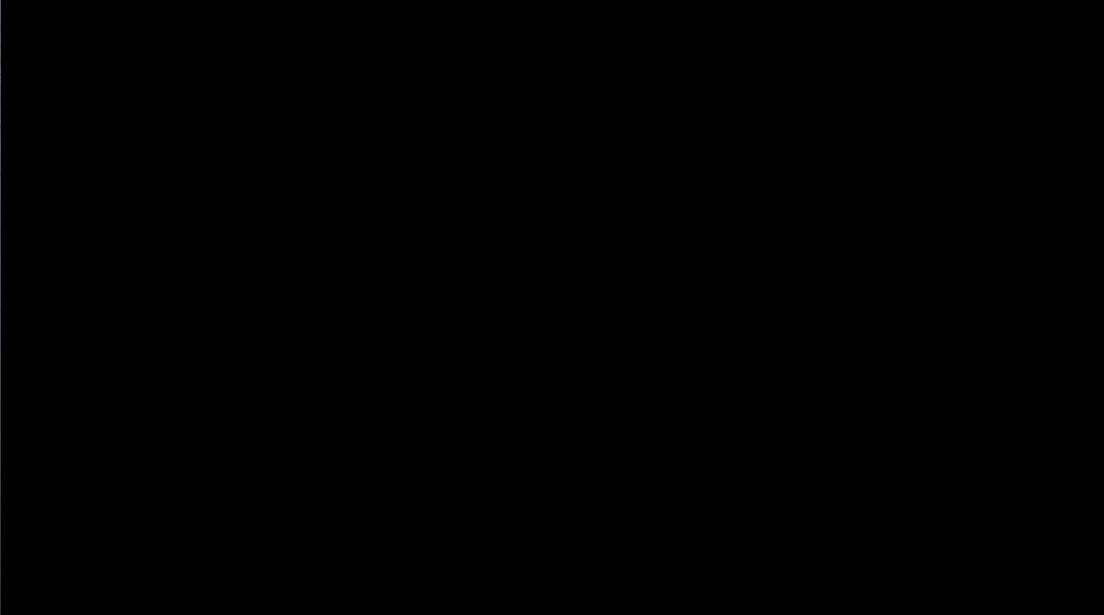




# Auto Driven cars



# COMPETITING HUMANS IN PRETTY MUCH EVERYTHING



**“WE RECOGNIZE THAT SUCH POWERFUL TECHNOLOGY RAISES EQUALLY POWERFUL QUESTIONS ABOUT ITS USE. HOW AI IS DEVELOPED AND USED WILL HAVE A SIGNIFICANT IMPACT ON SOCIETY FOR MANY YEARS TO COME. AS A LEADER IN AI, WE FEEL A DEEP RESPONSIBILITY TO GET THIS RIGHT.” -SUNDAR PICHAI, GOOGLE CEO**

THANK YOU

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