

# Искусственият интелект в образованието

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# Какво е изкуственият интелект?

Понятието „изкуствен интелект“ (ИИ) включва системи, които показват интелигентно поведение чрез анализ на средата и предприемане на действия – с известна степен на самостоятелност – за постигане на конкретни цели.



# Какво общо има ИИ с децата?

Изкуствен интелект	11
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Сектори и връзката им със създаването и използването на ИИ



# Предимства изкуствения интелект в класната стая

- Персонализирано обучение
- Интелигентните системи за обучение
- Адаптивна група
- Улесняване по пример
- Интелигентна модерация
- Обучение за виртуална реалност
- Софтуер за оценяване
- Оценка на проблемите в реално време
- Подобряване на качеството на курса
- Динамично планиране и прогнозен анализ
- Потребителски учебници
- Виртуални хора
- Базирана среда за обучение чрез Интелигентни игри
- Машинен превод
- Даване на възможности на хората с увреждания

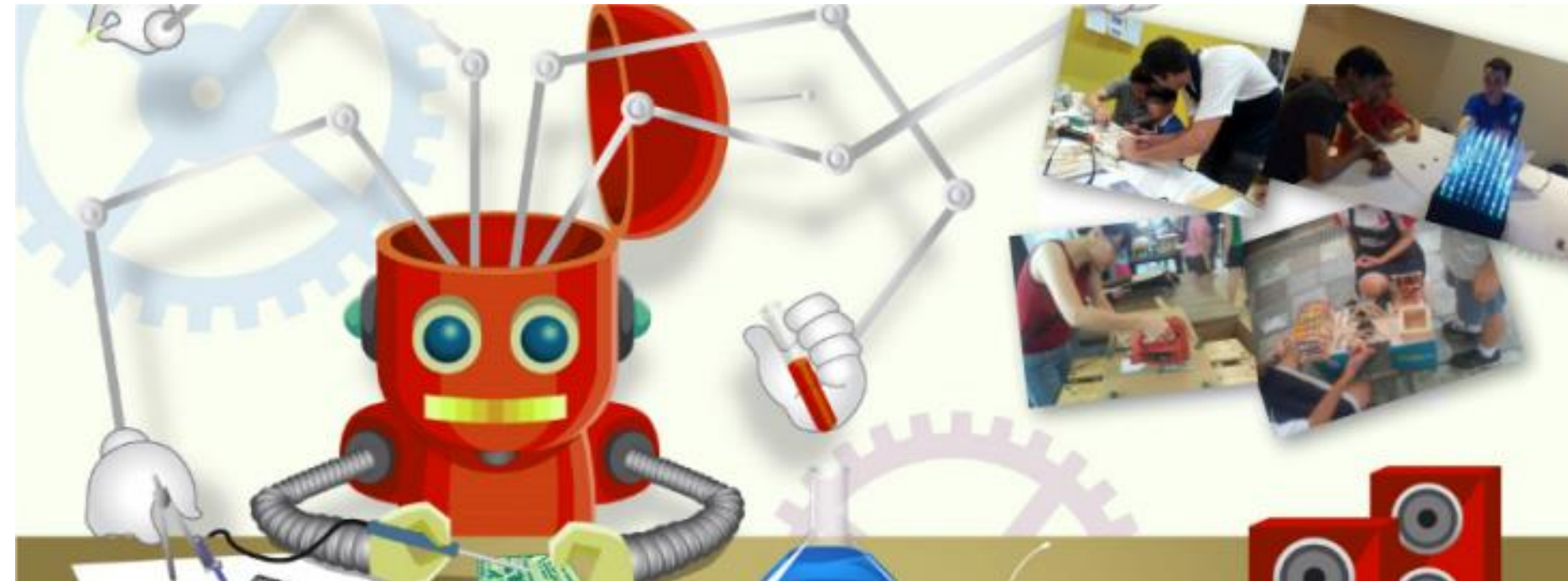


# Някои недостатъци на ИИ в класната стая

- Цена
- Пристрастяване
- Липса на лични връзки
- Безработица
- Ефективно вземане на решения
- Загуба на информация



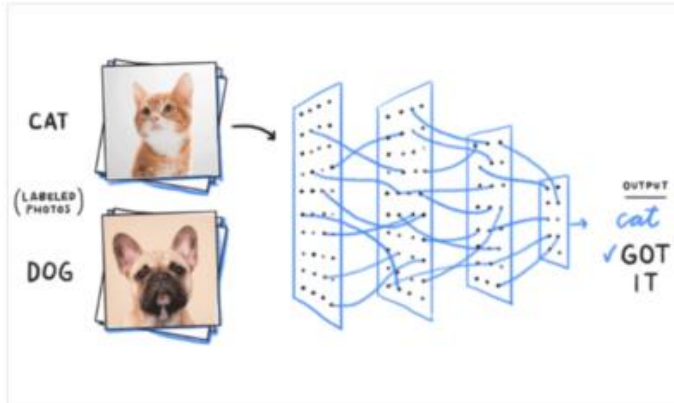
# Защо ИИ е важно за децата?



# Cognimates

COGNIMATES All Models Open Source Help translate this page

## Cognimates Studio



The diagram illustrates a neural network architecture for image classification. On the left, two stacks of labeled photos are shown: 'CAT' with a ginger cat and 'DOG' with a pug. An arrow points from these photos to a series of four layers of nodes, representing the neural network. The final output is 'cat', with a checkmark and the text 'GOT IT' below it.

**Train Vision**

[Getting Started Guide](#)



The illustration shows a person in a lab coat pointing at a computer monitor. The monitor has a face and is surrounded by binary code (0s and 1s). Below the illustration is a blue button labeled 'Train Text' and a link to 'Getting Started Guide'.

**Train Text**

[Getting Started Guide](#)



# Машинно обучение за деца

(<https://machinelearningforkids.co.uk>)

## Smart Classroom

Create a smart assistant in Scratch that lets you control virtual devices.  
Teach a computer to recognise the meaning of your commands



Difficulty: **Beginner**      Recognising: **text**

Tags: digital assistants, supervised learning

[Download](#)

## Make me happy

Create a character in Scratch that smiles if you say nice things to it and cries if you say mean things to it.  
Teach a computer to recognise compliments and insults



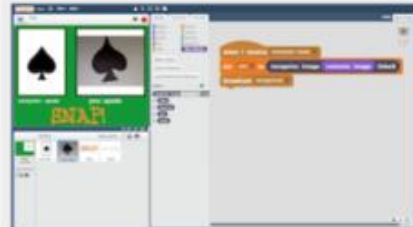
Difficulty: **Beginner**      Recognising: **text**

Tags: sentiment analysis, supervised learning

[Download](#)

## Snap!

Make a card game in Scratch that learns to recognise pictures of your card.  
Teach a computer to recognise what icons look like



Difficulty: **Beginner**      Recognising: **images**

Tags: image classification, supervised learning

[Download](#)

## Chameleon

Make a chameleon in Scratch that changes colour to match its background  
Teach a computer to recognise colours



Difficulty: **Beginner**      Recognising: **images**

Tags: image classification, supervised learning

[Download](#)

## Titanic

Create a Python program that can predict who survived the sinking of the Titanic.  
Teach a computer to predict outcomes



Difficulty: **Beginner**      Recognising: **numbers**

Tags: predictive model, supervised learning

[Download](#)

## Mailman Max

Make a postal sorting office in Scratch that can recognise handwritten postcodes on envelopes.  
Teach a computer to recognise handwriting



Difficulty: **Beginner**      Recognising: **images**

Tags: optical character recognition, handwriting recognition, image classification

[Download](#)

## Car or cup

Train the computer to be able to sort photos into groups.  
Teach a computer to recognise pictures of objects



Difficulty: **Beginner**      Recognising: **images**

Tags: image classification, supervised learning, crowd sourcing

[Download](#)

## Face Lock

Make a phone in Scratch that unlocks if it recognises your face.  
Teach a computer to recognise faces



Difficulty: **Beginner**      Recognising: **images**

Tags: facial recognition, biometrics, image classification, supervised learning

[Download](#)





# ИИ на Google

(<https://experiments.withgoogle.com/collection/ai>)

Experiments with Google

Collections ▾ Experiments 🔍 Search

SUBMIT EXPERIMENT

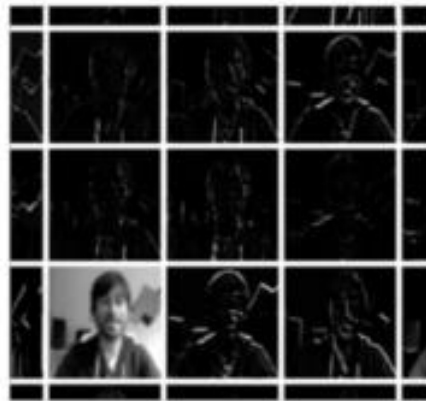
## AI + LEARNING



### TEACHABLE MACHINE

by Google Creative Lab

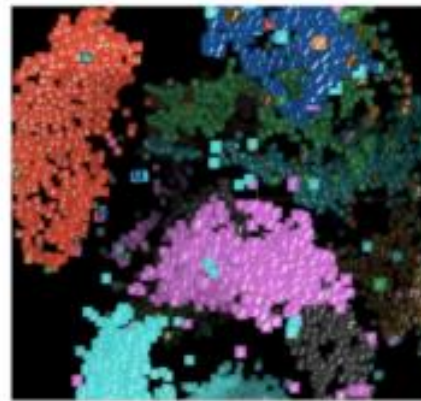
Teach a machine using your camera, live in the browser - no coding required.



### WHAT NEURAL NETWORKS SEE

by Gene Kogan

Explore the layers of a neural network with your camera.



### VISUALIZING HIGH-DIMENSIONAL SPACE

by Seifkov / Viégas / Wattenberg

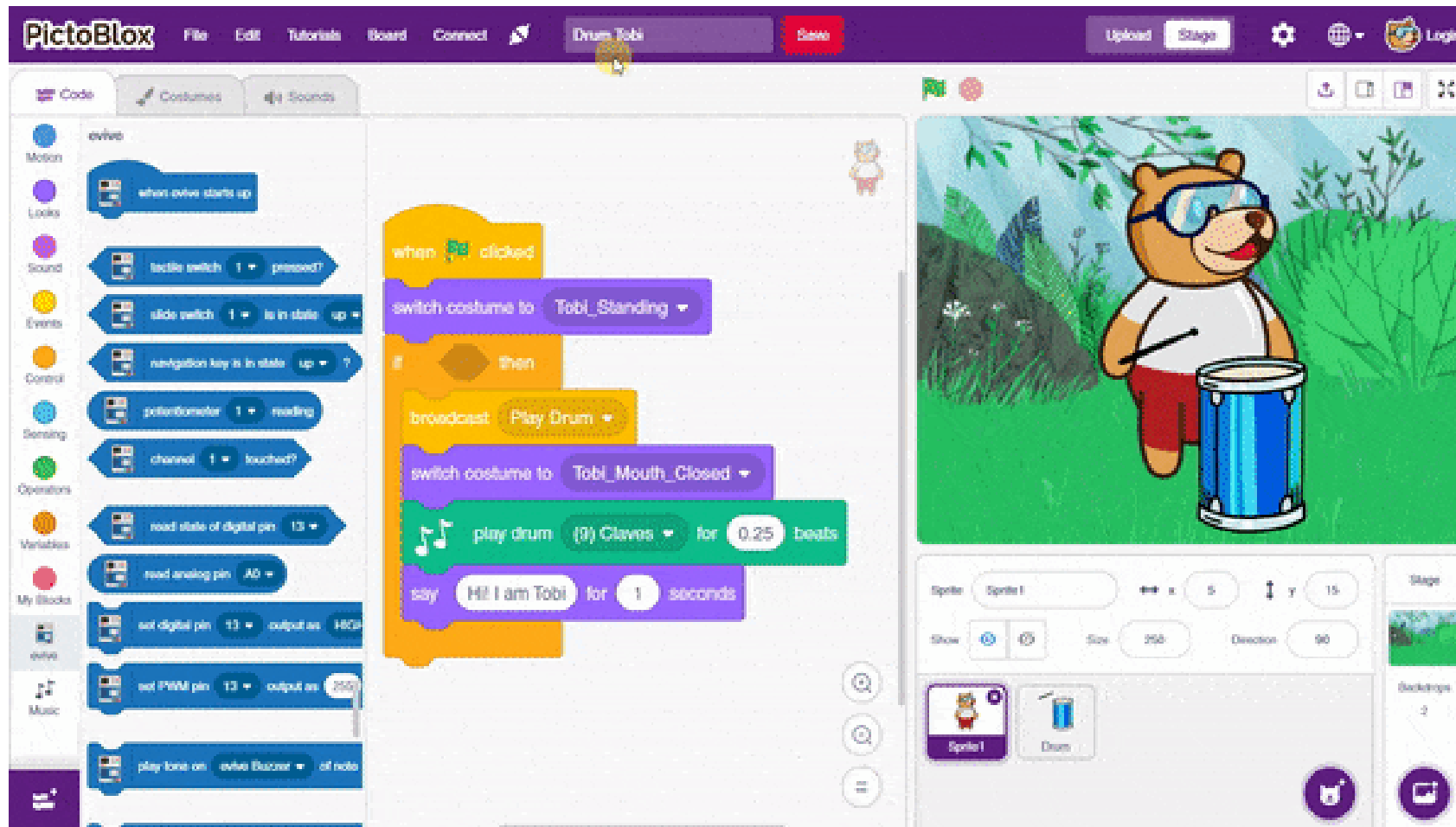
Get a peek at how machine learning works.

Линк с видео за ИИ на Google <https://youtu.be/oOwfiYnRi5c>

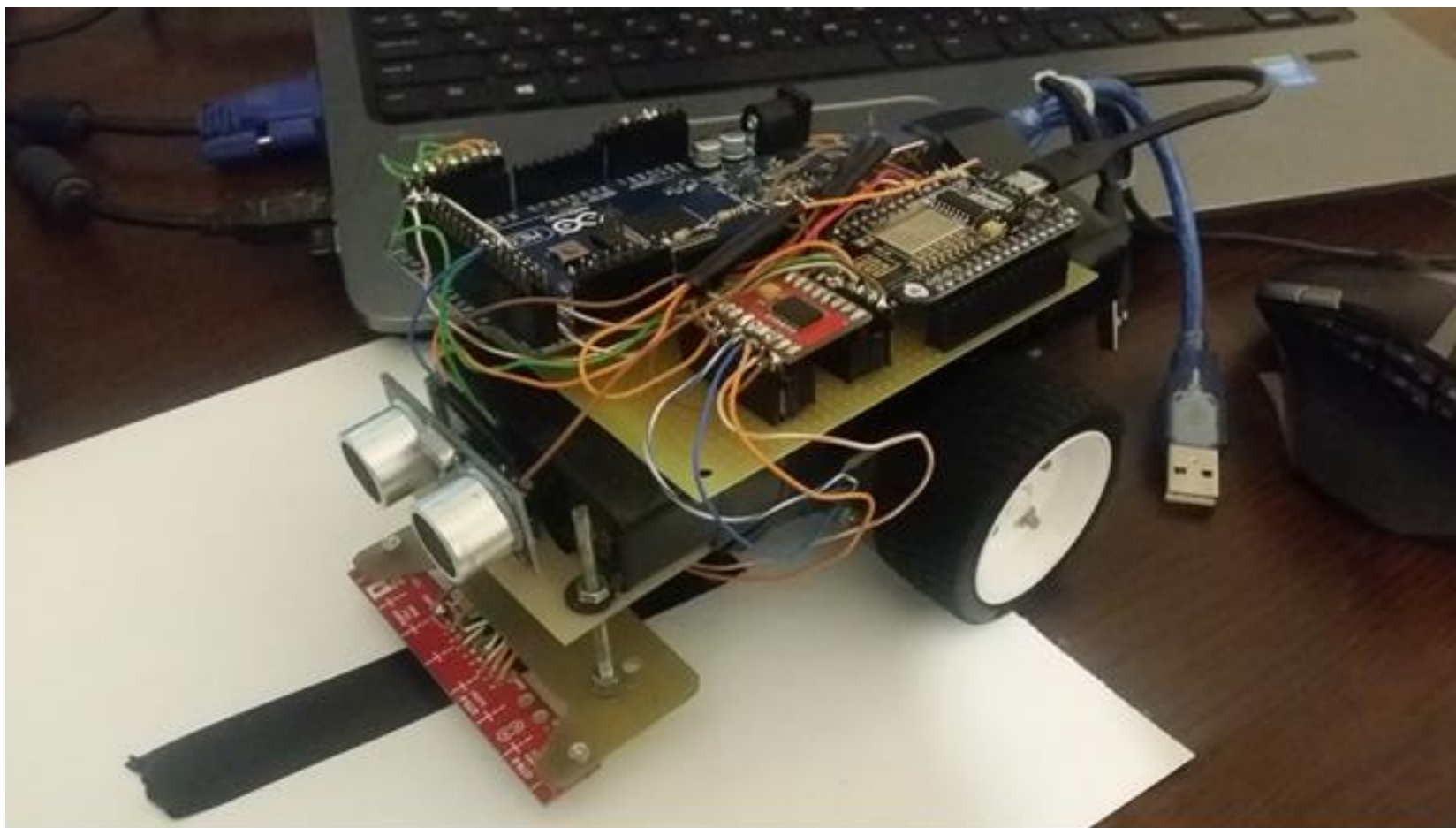


# PictoBlox

(<https://thestempedia.com/product/pictoblox/>)



# Роботи с ИИ



# Първи стъпки

- Въпроси и проекти
- Изграждане на някои основни умения
- Експериментиране с приложенията на ИИ
- Преподаване с повече творческо решаване на проблеми и игрови подходи



Благодаря за  
вниманието!

