

Visual studio 2019

Launch event



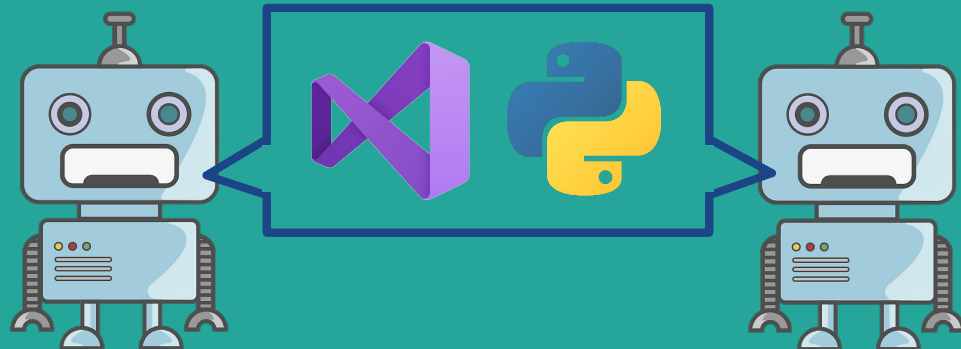
Novedades en Visual Studio 2019 (Javier Vela)

Qué debes conocer de .Net Core 3.0. (Hugo Biarge)

Trabajo en equipo con GIT y Pull Requests (Roberto Sanz)

Novedades en el desarrollo con Xamarin: Optimizaciones y librerías esenciales (Sergio Castillo)

Machine Learning en VS2019 y, IA que estamos, ¡pair programming con Live Share! (Alejandro Giménez y Gabriel García)



Machine Learning en VS2019 y, IA que estamos, ¡pair programming con Live Share!

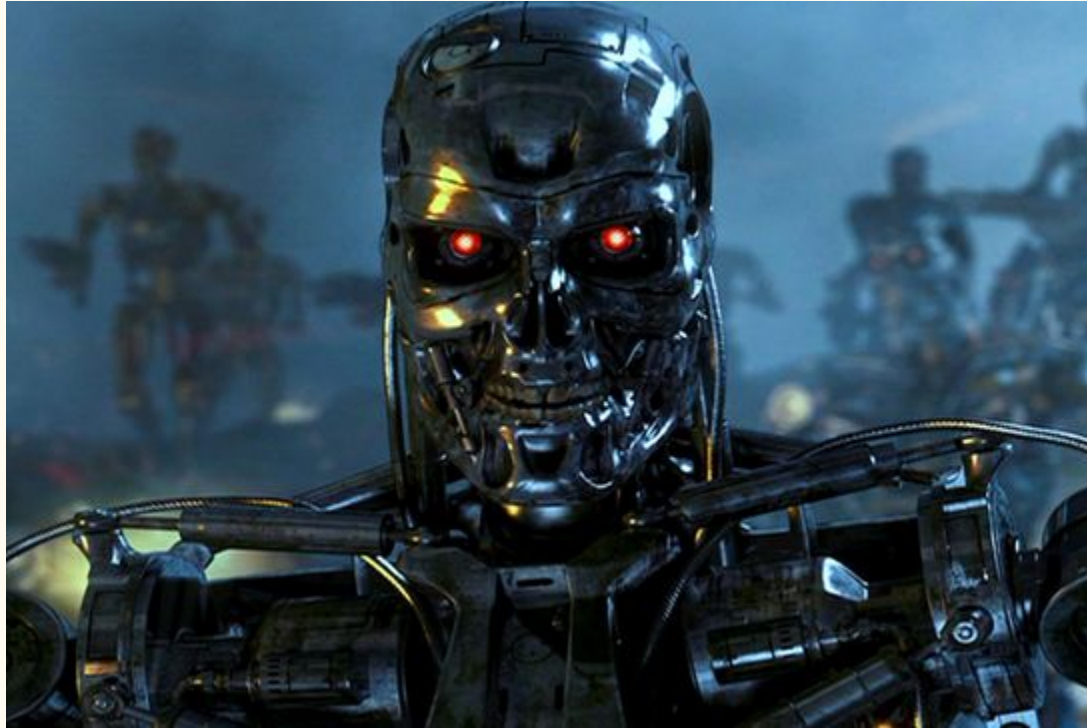


Alejandro Giménez
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Gabriel García
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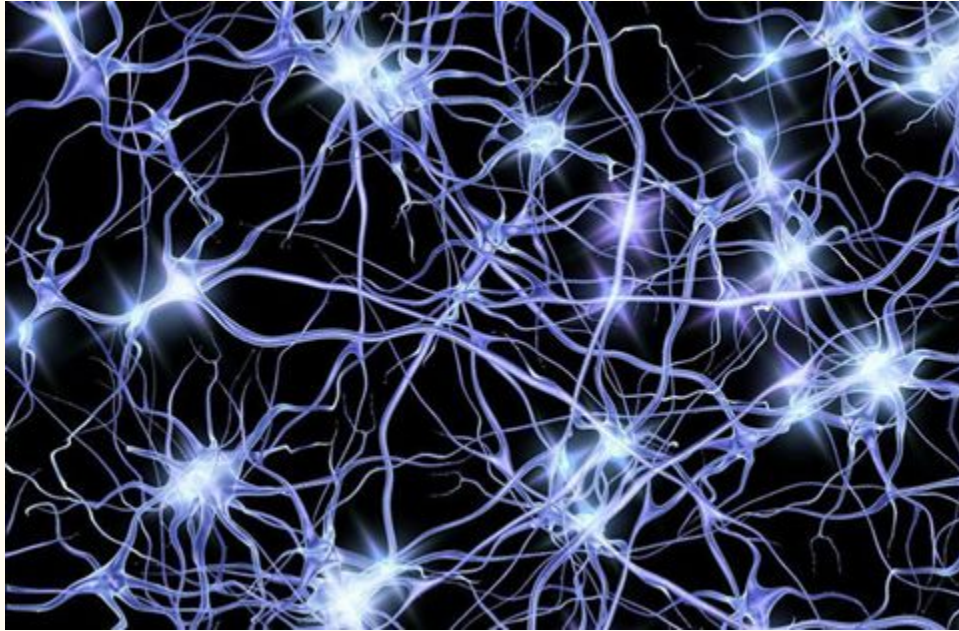
What is AI?



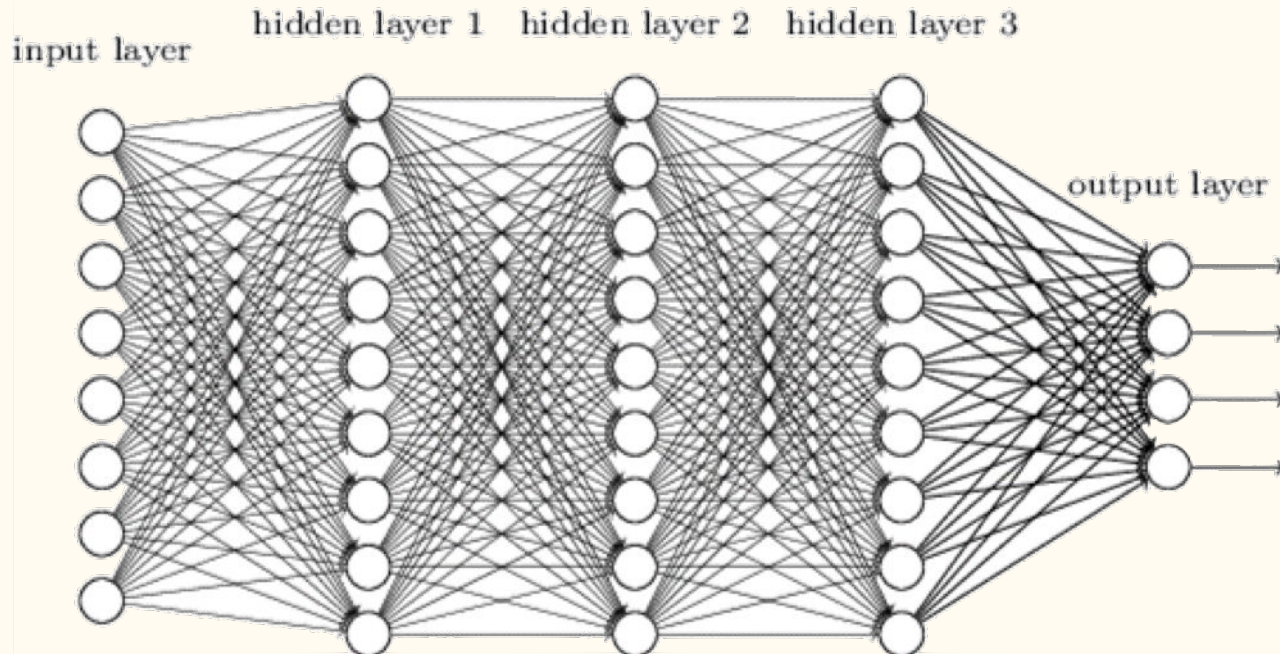
What is ML?



Neural Networks









Neural Networks

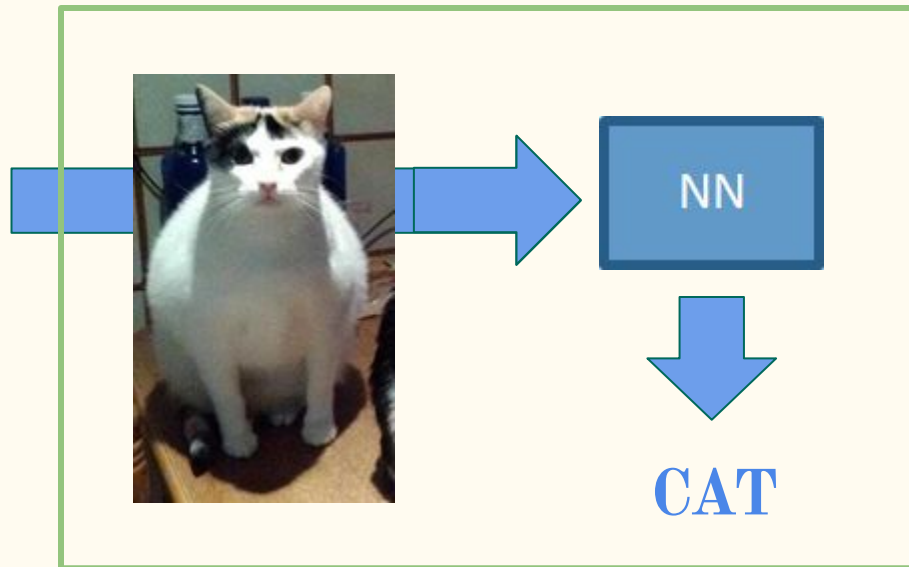


Supervised Learning

Training

	CAT		NOT CAT
	CAT		NOT CAT
	CAT		NOT CAT

Test



MNIST



Installation

Visual Studio 2019 - Python Projects

Free. Installed by selecting “Python” development option in VS installer

Python <https://www.python.org/downloads/>

Free.

CUDA <https://developer.nvidia.com/cuda-downloads>

Optional (but recommended) for speeding up ML Training.

Start (Machine) Learning!

Unifying code: using one solution for both your .NET & Python projects

Easy integration: ONNX allows easy integration of your ML Model in .NET

Cross-platform: easy to use in WinForms, MVC, WebApi, Xamarin...

Debugging sessions: breakpoints, variables, call stack, console... but for Python!

Work with Python, PyTorch, TensorFlow, ... all in Visual Studio!

Implementation

<https://github.com/gabrielGar/MNISTViewer.git>



So you go try and...



Fear not! Live Share!

```

    * @param {Array} activeSignatures - An array of active signatures
    Jon Chu
    updateActiveSignature(activeSignatures) {
      activeSignatures.forEach(signature => delete signature.isActive);|

      const activeSignature = Math.floor(Math.random() * activeSignatures.length);

      this.setState({ signatures: this.state.signatures });
    }
  }

  *
  * @param {Array} activeSignatures - An array of active signatures
  */
  updateActiveSignature(activeSignatures) {
    activeSignatures.forEach(signature => delete signature.isActive);
    Amanda Sih
    const activeSignature = Math.floor(Math.random() * activeSignatures.length);

    this.setState({ signatures: this.state.signatures });
  }
}
```


Installation

Visual Studio 2019

Free. Installed by default! Only for Windows, not Mac :-(

Visual Studio Code

Free. Install Visual Studio Live Share extension and then reload.

Sign in and Live Share will appear in your **Status Bar**.

You can now begin collaborating with others immediately!

Collaboration just got easier

Sharing & Joining: session url with read-only or read/write permissions

Co-editing files: editing in real-time with each one's editor preferences

Follow/Focus participants: track someone's actions or get their attention on you

Debugging sessions: breakpoints, variables, call stack, console...

Terminal instances: run commands, tests, containers...

Ideal for code reviews, interactive education, helping teammates and pair programming!

Links

AI-infused Break:

https://www.youtube.com/watch?v=sV_M8T8yVis

<https://dot.net/ml>

<https://onnx.ai/>

<https://aka.ms/mlnetsamples>

Live-Share:

<https://www.youtube.com/watch?v=fWXe1HQ1wVA>

<http://aka.ms/vsls>

Q&A

Arigato :-]

