

Machine Learning Introduction with Python



Hello!

I am Angel Quintanilla

Technical Lead, Software developer,
Data engineer, Machine Learning
enthusiastic

You can find me at [@angelquintaflo](https://twitter.com/angelquintaflo)



Concepts

Let's start with the first set of slides



“ Machine Learning is a branch of artificial intelligence (AI) focused on building applications that learn from data and improve their accuracy over time without being programmed to do so.” (IBM)

Type of machine learning

Supervised Learning

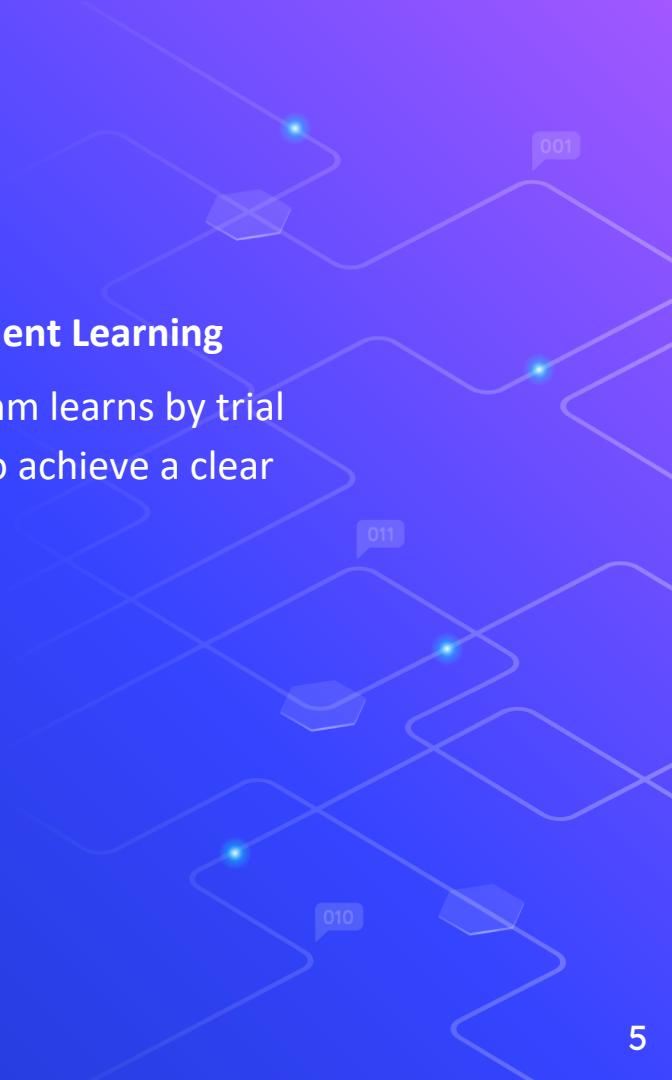
The data is labeled to tell the machine exactly what patterns it should look for.

Unsupervised Learning

The machine looks for whatever patterns it can find.

Reinforcement Learning

The algorithm learns by trial and error to achieve a clear objective.



Applications of Machine Learning

Health

Investigations about cancer, know how to prevent it

Recommendations

Netflix use it to recommend movies and series based of what you like

Email

Detection of Spam, check you email to classify the type if apply to be spam or not

Tools

- Python
- R
- R-Studio
- Jupyter
- Databricks
- Google Colab



Python Libraries

- Numpy
- Pandas
- Matplotlib
- Seaborn
- Sckitlearn
- Tensorflow



Numpy

- Facilitate mathematical operations
- Vectorized operations
- Efficient Storage



Pandas

- For reading data, cleaning , analyze
- Analyze large volumes of data
- To calculate basic from statistics



Steps of Machine Learning



Machine learning Leaders

IBM

Watson

Amazon

Amazon Machine
Learning

Google

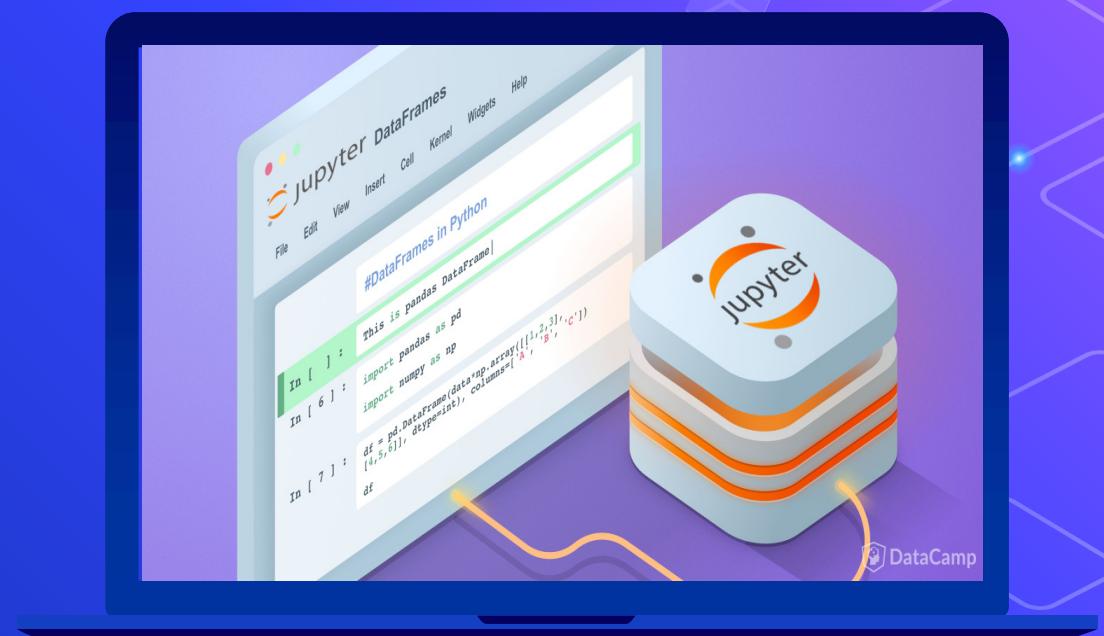
Tensorflow

Microsoft

Azure ML Studio



Demo Time



Thanks!

Any questions?

You can find me at:

@angelquintaflo

angelusm2003@yahoo.com.mx

