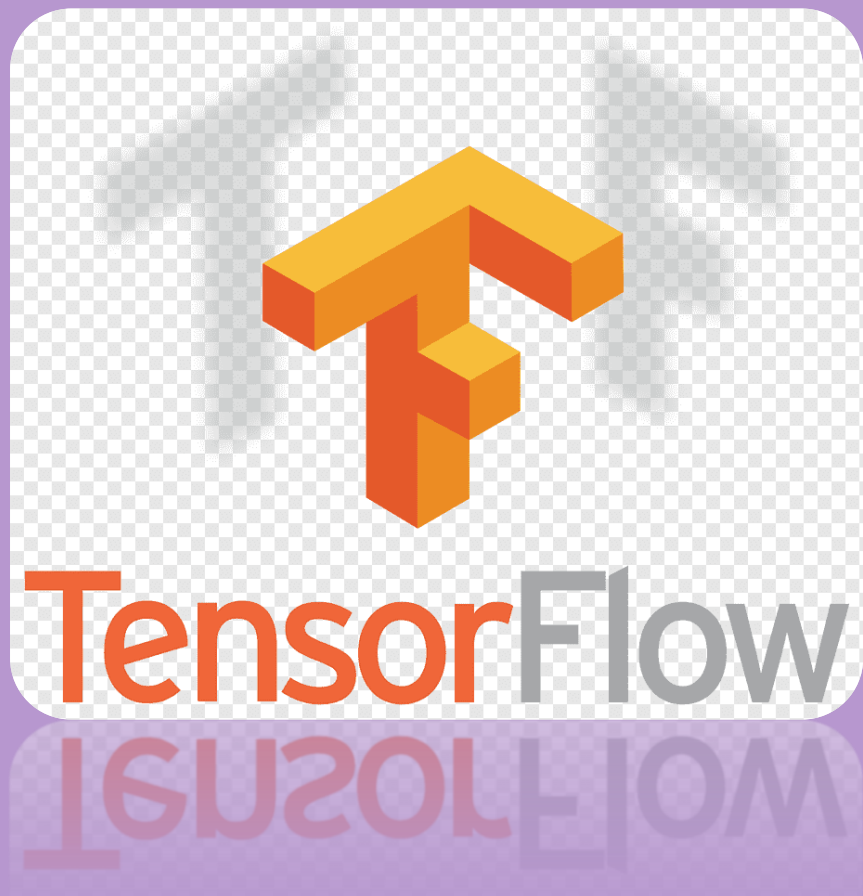


دوره‌ی آموزشی «علم داده»

Data Science Course



جلسه بیست و هفتم (بخش دوم) نکاتی در خصوص تنسورفلو و طریقه‌ی نصب آن

مدرس: محمد فزونی

عضو هیئت علمی دانشگاه گنبدکاووس

تنسور چیه؟ آیا همون ماتریسه؟



scalar



tensor
rank: 0



vector



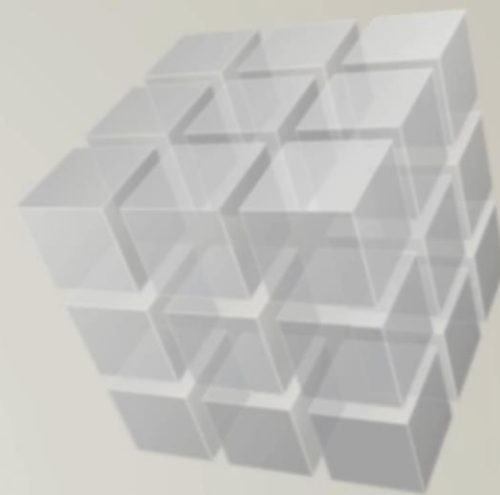
tensor
rank: 1



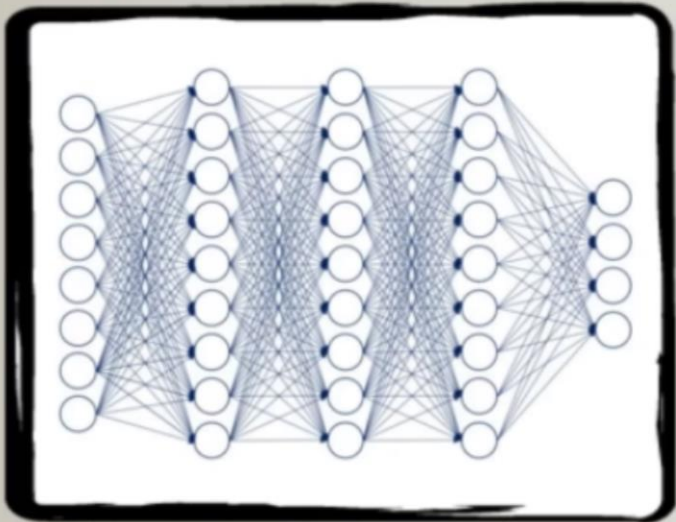
matrix

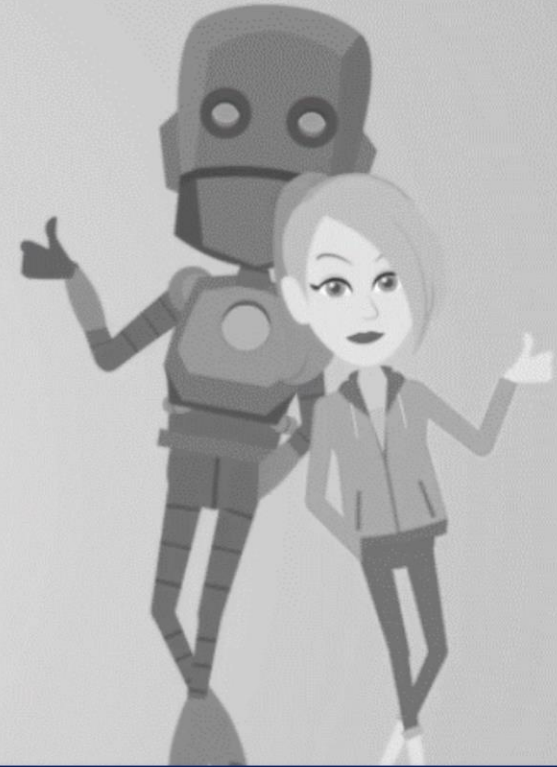
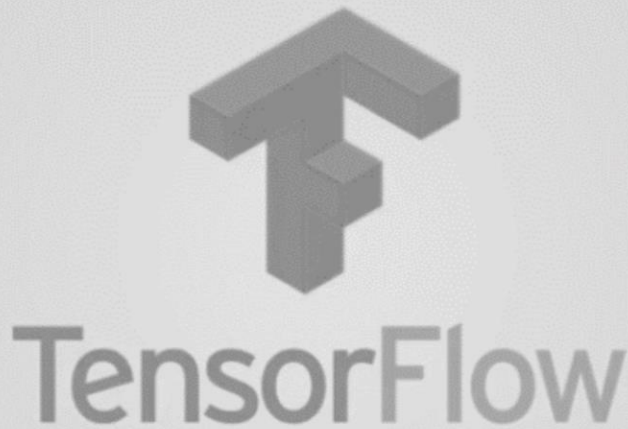
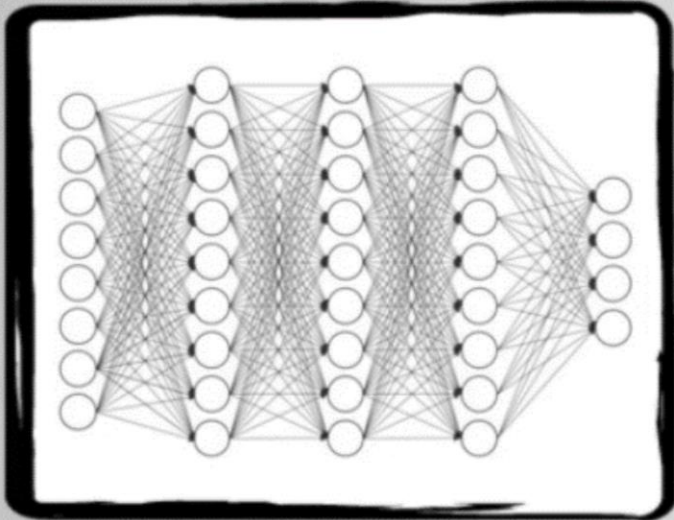


tensor
rank: 2

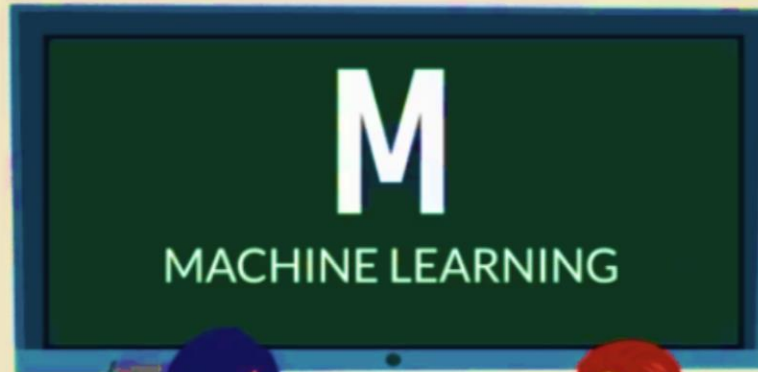


tensor

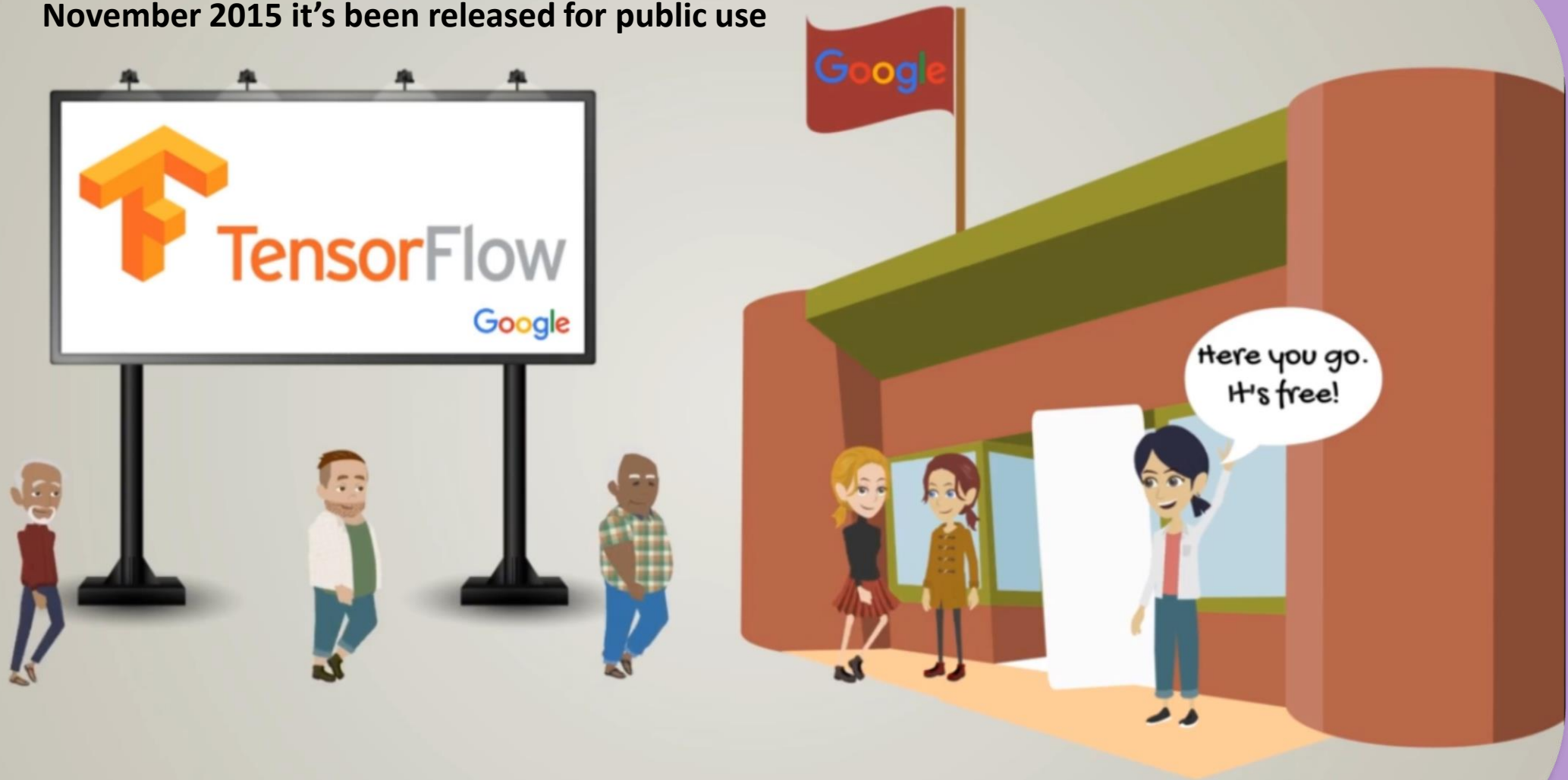




TensorFlow is a deep learning library, developed by Google, that allows us to create fairly complicated models with little coding.



November 2015 it's been released for public use

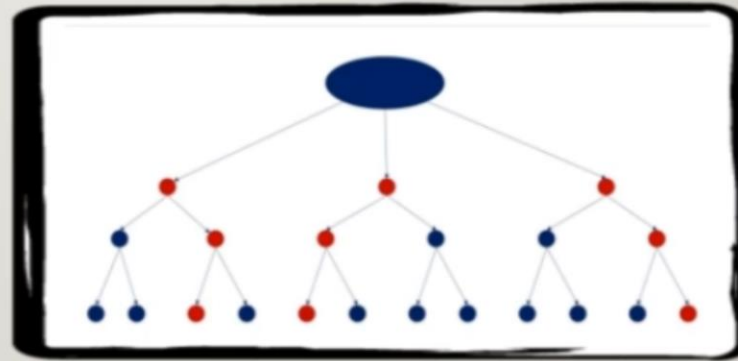
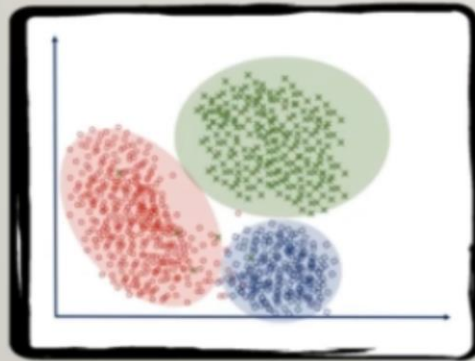






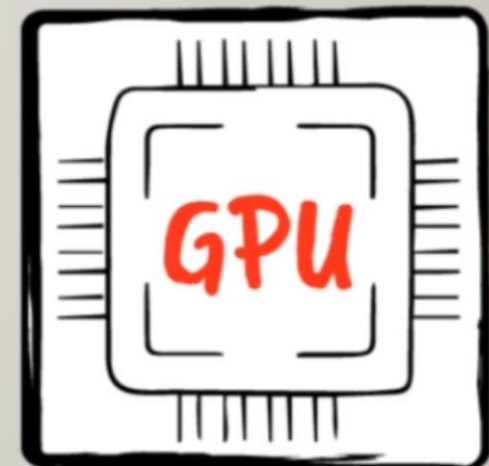
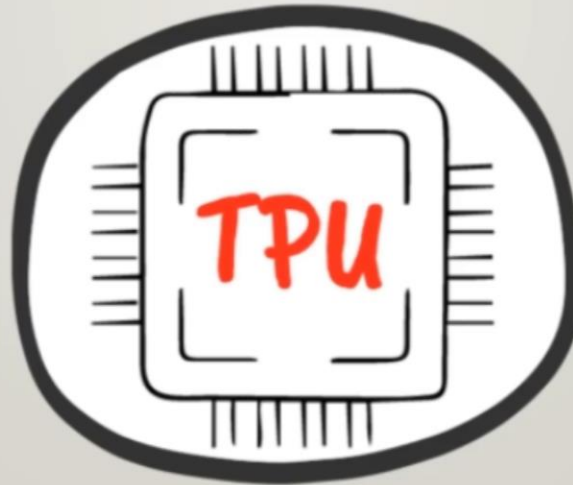
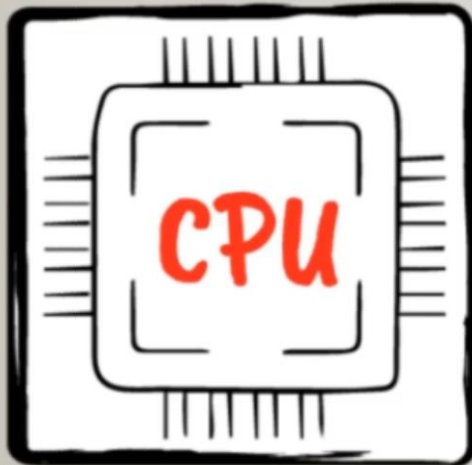


MAY BE BETTER!





TensorFlow



TensorFlow is a free and open-source software library for machine learning.

It can be used across a range of tasks but has a particular focus on deep neural networks.

We can install TensorFlow as two different ways

- **Anaconda Prompt**
- **Anaconda Navigator**

Installing TensorFlow by Anaconda Prompt

- 0- conda info --envs
- 1- conda create --name TeFl2 python=3
- 2- conda activate TeFl2
- 3- conda install tensorflow
- 4- pip install --upgrade tensorflow
- 5- pip install ipykernel
- 6- ipython kernel install --user --name=write-your-env-name-here

Finally you should install pandas and matplotlib by pip

- 7- pip list
- 8- pip install matplotlib
- 9- pip install pandas