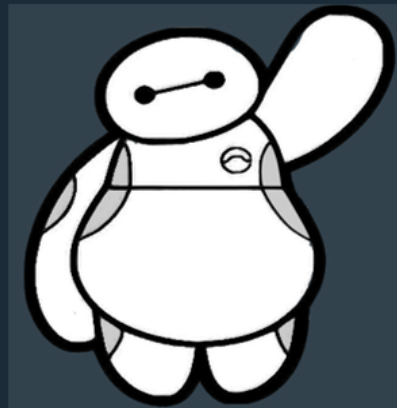# Introduction to artificial inteligence bootcamp

```html
<p> Amirmahdi Aramideh. </p>
```

HELLO! I'm...

`<p>` I'm computer engineering student and also computer vision researcher at several universities. `</p>`

What are you going to learn in this course?

01
We will talk about this Numpy.

02
We will talk about this Pandas.

03
Then, we will talk about Matplotlib.

04
After that we will talk about Regression.

05
We will also talk about classification.

06
And we will talk about this clustering.

Most useful Python libraries

Most Useful Libraries in Python

Web Development
- Django
- Flask
- FastAPI

Data Science
- NumPy
- Pandas
- SciPy

Data Visualization
- Matplotlib
- Seaborn
- Plotly

Machine Learning
- Scikit-Learn
- TensorFlow
- PyTorch

Web Scraping
- Beautiful Soup
- Requests
- Scrapy

GUI Development
- Tkinter
- PyQt5
- PySimpleGUI

Game Development
- Pygame
- PyOpenGL
- Panda3D

Image Processing
- Pillow
- OpenCV
- Scikit-Image

01 WE WILL TALK ABOUT Numpy

```html
<p> Numpy is the fundamental package for numerical
computing and scientific computing in Python. It adds
powerful n-dimensional array objects and capabilities
to the Python programming language.</p>
```

02 NOW WE WILL TALK ABOUT Pandas

```
<p> pandas provides high-performance, easy-to-use data
structures and data analysis tools for loading, cleaning,
transforming and modeling data in Python.</p>
```

Coding Time!

03 NOW WE WILL TALK ABOUT Matplotlib

```
<p> Matplotlib is a highly customizable library that
provides excellent 2D/3D plotting and visualization
capabilities in Python.</p>
```

Some other **visualization** libraries

Plotly

creates interactive web-based and static visualizations across platforms.

Seaborn

Seaborn is a Python visualization library that builds on matplotlib for statistical graphics.

Bokeh

provides an interactive visualization library for large datasets to embed plots in web apps.

THANK YOU!

Do you have any questions?

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