

Machine Learning and Artificial Intelligence

CI7520

Python Libraries - MLAI

Working with Python

Introduction

This worksheet is intended to introduce Python Libraries.

Exercises

Exercise 1: Numpy and Pandas

- a) From given data set ([Salaries.csv](#)) print first and last five rows
- b) Find the highest paid person
- c) Find the average salary
- d) Plot the salaries for male and female

Exercise 2: Images

- a) Load an image ([cat](#), [monkey](#)) crop a certain region and display it
- b) Load an image, find the average colour, and make it brighter or darker, then save the results and display them

Exercise 3: Pokémon

From the [Pokémon](#) dataset

- a) How many Pokémon of each type are there?
- b) Which Pokémon type is the most powerful?
- c) Find average values, variance for each property and plot them (e.g. bar chart)