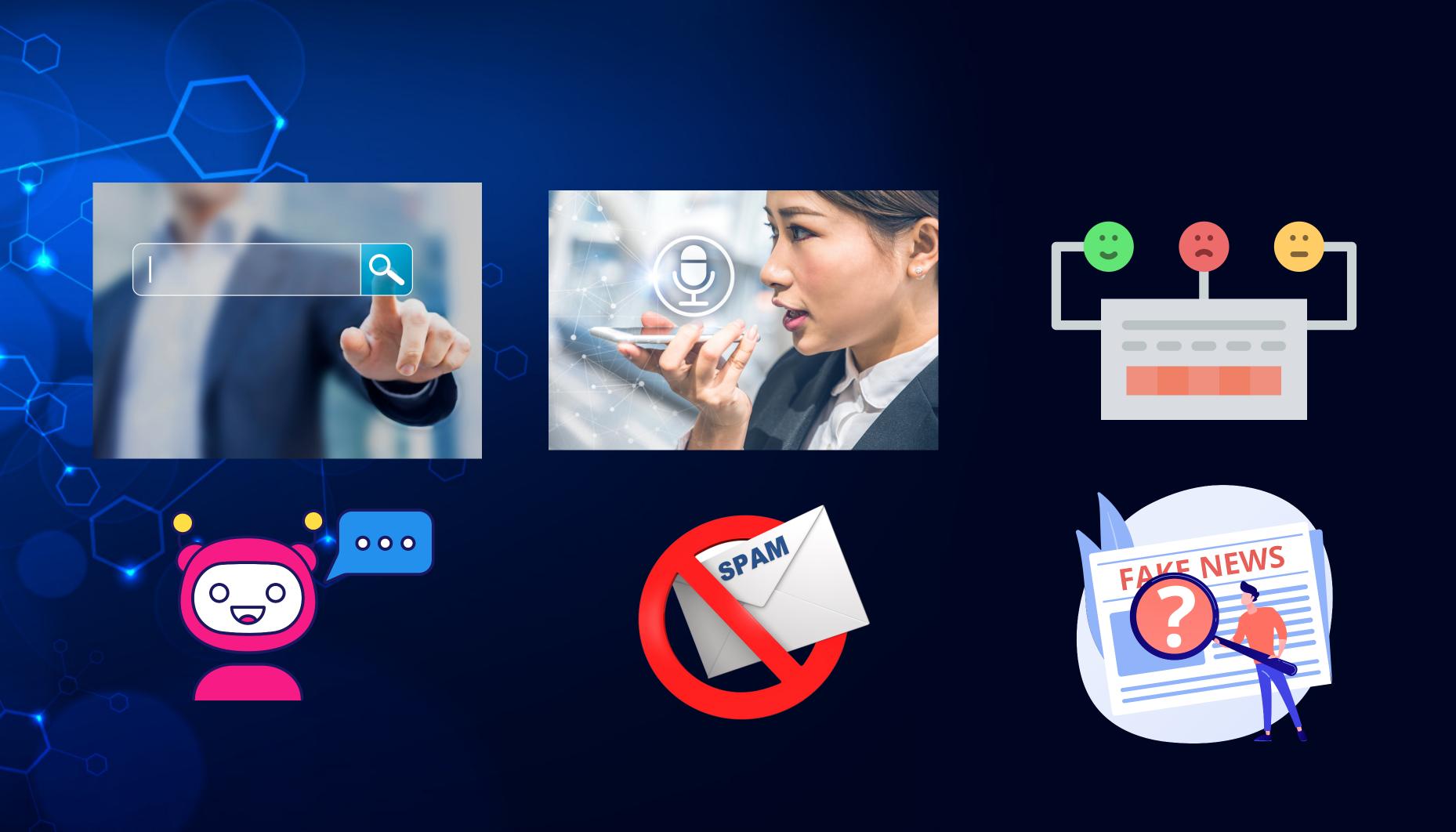


LET'S LEARN NLP

STUDENT EDITION 2022

Bartosz Grabek Suraj Kothari Minyi Lei

CODING CURRICULUM HACKATHON 2022







spaCy

.zip

data

images

quizzes

venv

1. Let's Learn NLP - Introduction.ipynb

1. Let's Learn NLP - Worksheet 1.ipynb

2. Let's Learn NLP - Getting started with Spacy.ipynb

2. Let's Learn NLP - Worksheet 2.ipynb

3. Let's Learn NLP - Understanding word vectors.ipynb

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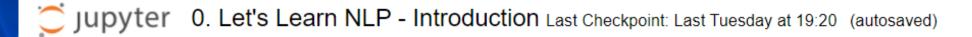
CONTENT

- 1. Setup and Using the Course
- 2. Intro to NLP and Jupyter Notebooks
- 3. Getting started with Spacy
- 4. Understanding plain text, word embeddings
- 5. Basic Sentiment Analysis
- 6. Extraction of keywords and extractive summarization

*Note: The content is a subject to change under further review

LEARNING OBJECTIVES

- 1. Learn how to use Jupyter Notebooks
- 2. Understand the fundamentals of NLP
- 3. Improve programming skills and learn the basics of Spacy
- 4. Use the acquired knowledge and skills in practice and apply them in simple NLP tasks





Python 3 (ipykernel) (

Trusted

aout





Pre-requisites

Before starting this workshop, here is a list of necessary requirements:

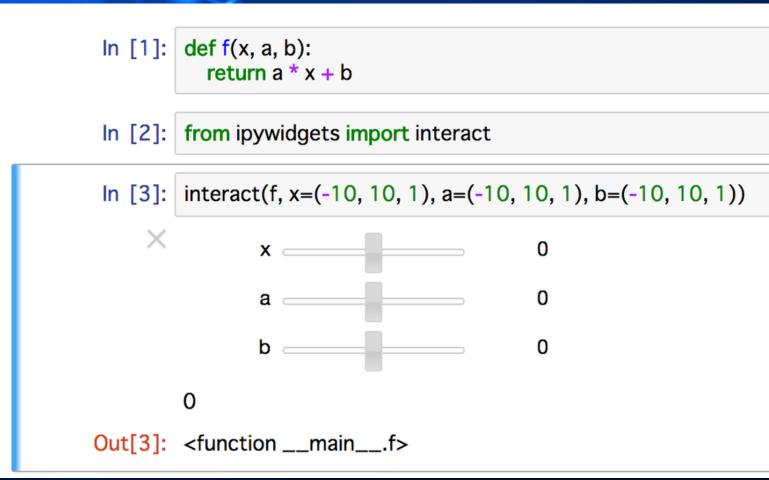
- Access to a **PC** or **laptop** (1 per student/group)
- Python 3.7 or higher installed on the computer
- Jupyter notebook package installed (Helpful guide: https://jupyter.org/install)
- Have our virtual environment activated. It will include all the important dependencies needed to run the notebook.
- We recommend the students have some basic knowledge about **programming in Python**, however, many of the exercises will involve running simple commands and we have done our best to abstract any complicated logic away.
- There will be some use of maths to explain how words are stored. We recommend students have some knowledge of vectors and how they are added together.

Please, watch this [video](Insert YouTube link here) on how to set up before starting the course.

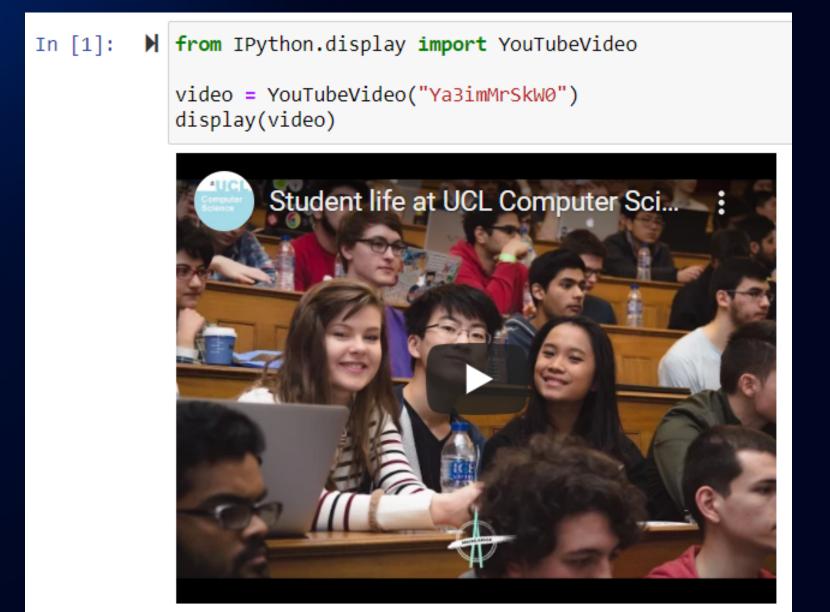
Learning Objectives

la thia warkahan wa will guida atudanta thraugh thaga agatians

IPython & ipywidgets



Source: https://linuxtut.com/en/55dc860433d52228ce20/



jupyterquiz

```
  ★ from jupyterquiz import display_quiz

display_quiz("quizzes/questions1.json")
                      Determine the output of the following Python code:
                        a="1"
                        b="2"
                        print(a+b)
                                                                         2
                                     3
                                                                        error
                                     12
```

https://github.com/jmshea/jupyterquiz



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