
Capstone Project

Postgraduate Course on Data Science & Big Data



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**Design the best learning
model and beat your
classmates!**

The problem

SENTIMENT ANALYSIS



**Discovering people opinions, emotions and feelings about
a product or service**

... of the Airlines in Twitter



Team-based project

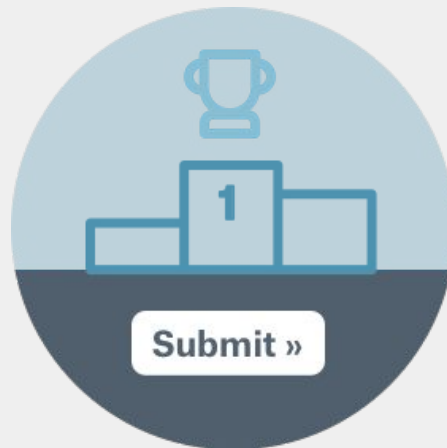
- 4 people per team
- 5 practical sessions
- All year long



Kaggle in Class

Two datasets

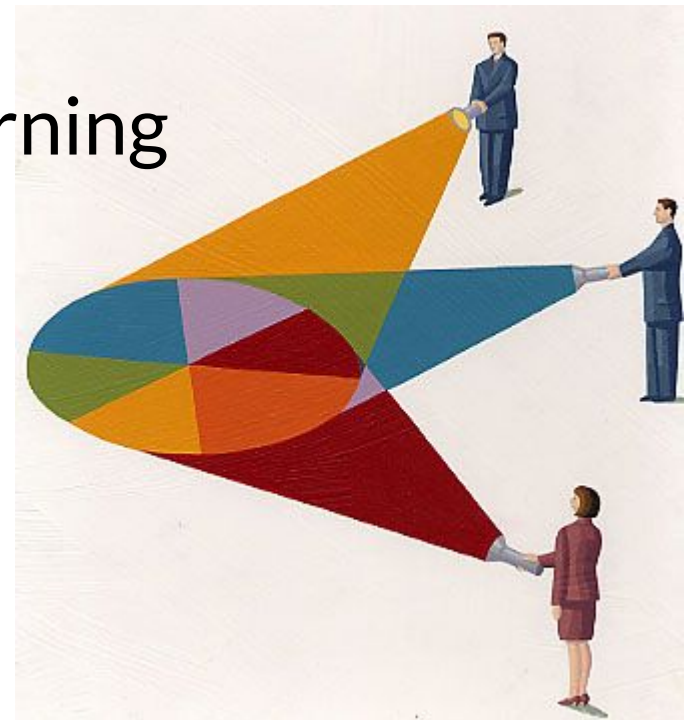
- Public
- Private



Real Time classification

Features a wide range of fields

- Feature Engineering
- Natural Language Processing
- Labeling
- Supervised Learning



Data

A grayscale photograph of an airport tarmac at dusk or dawn. Several commercial airplanes are parked at gates or on the apron. In the foreground, there are two white vans and a pickup truck. The sky is filled with clouds, and the overall atmosphere is quiet and industrial.

6 Airlines

8784 Tweets

3 Sentiments

Outline

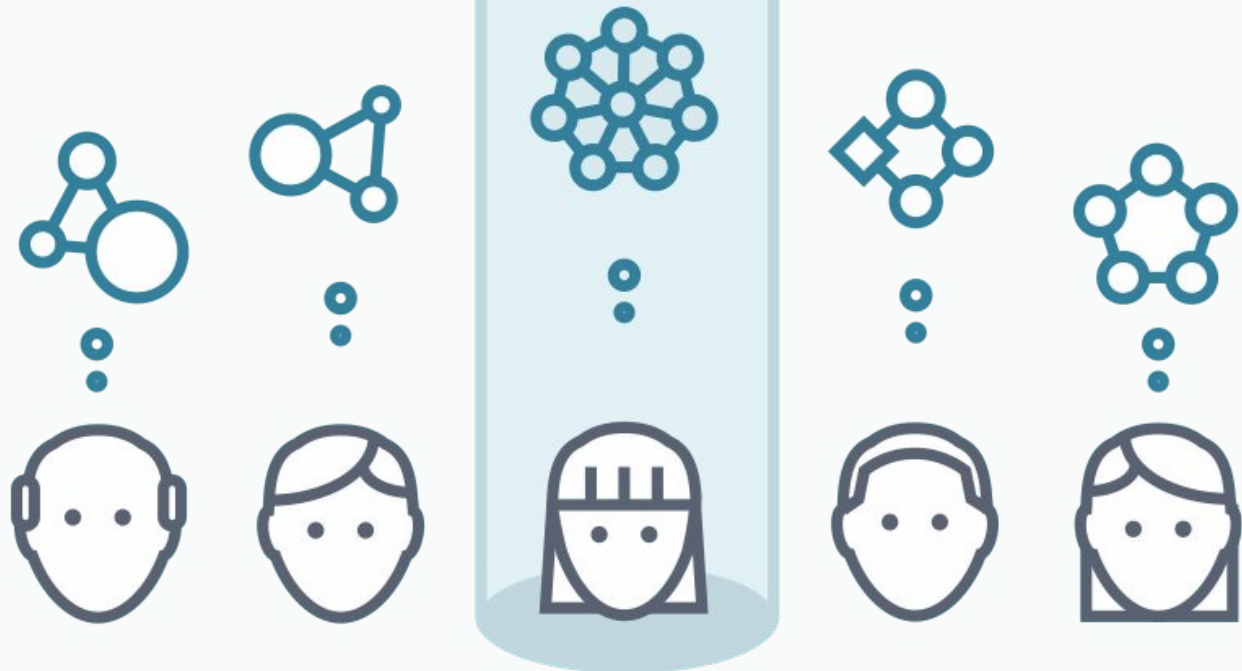
0. Get in touch with the data

... Explore the data provided in this session.



1. Join Kaggle

... Start competing with the rest of the groups to obtain the best score.



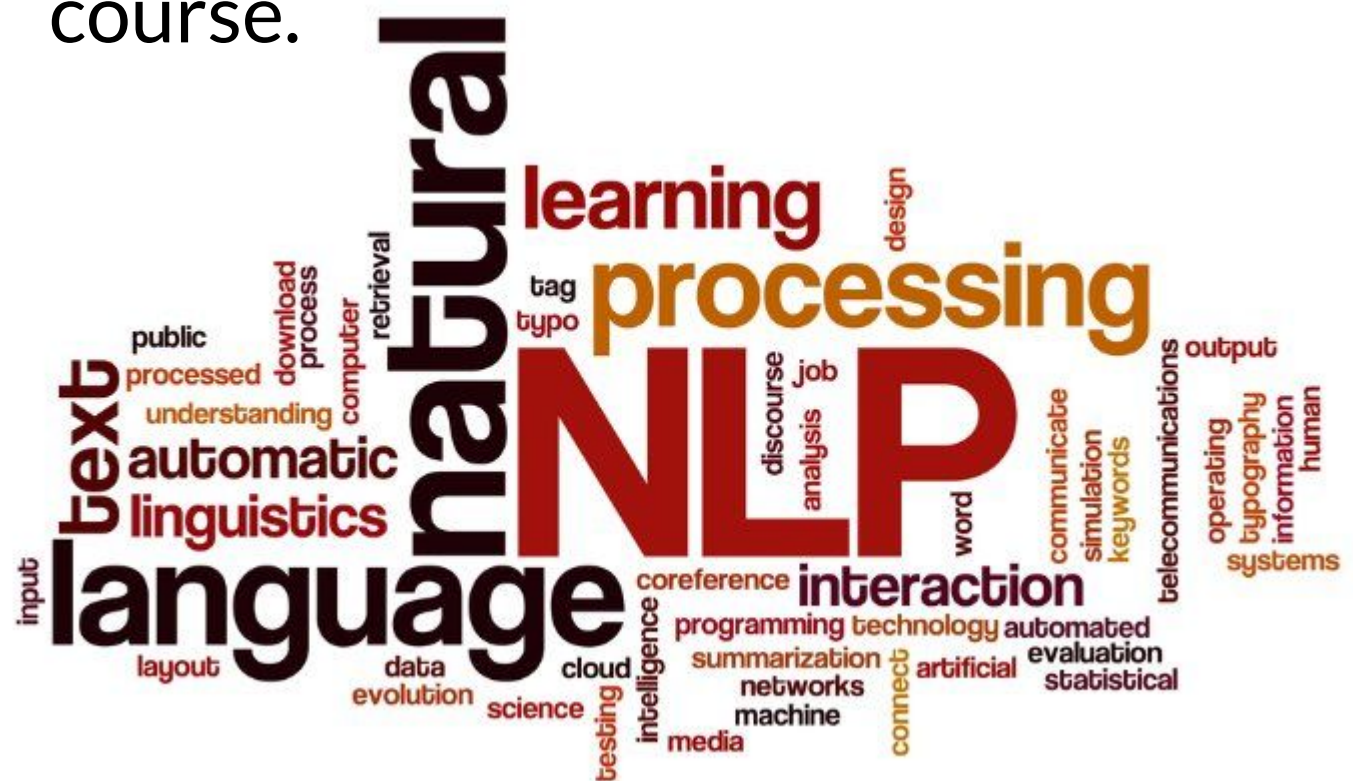
2. Labeling time

... Using a custom application you will need to label a brand new dataset of Spanish Airlines.



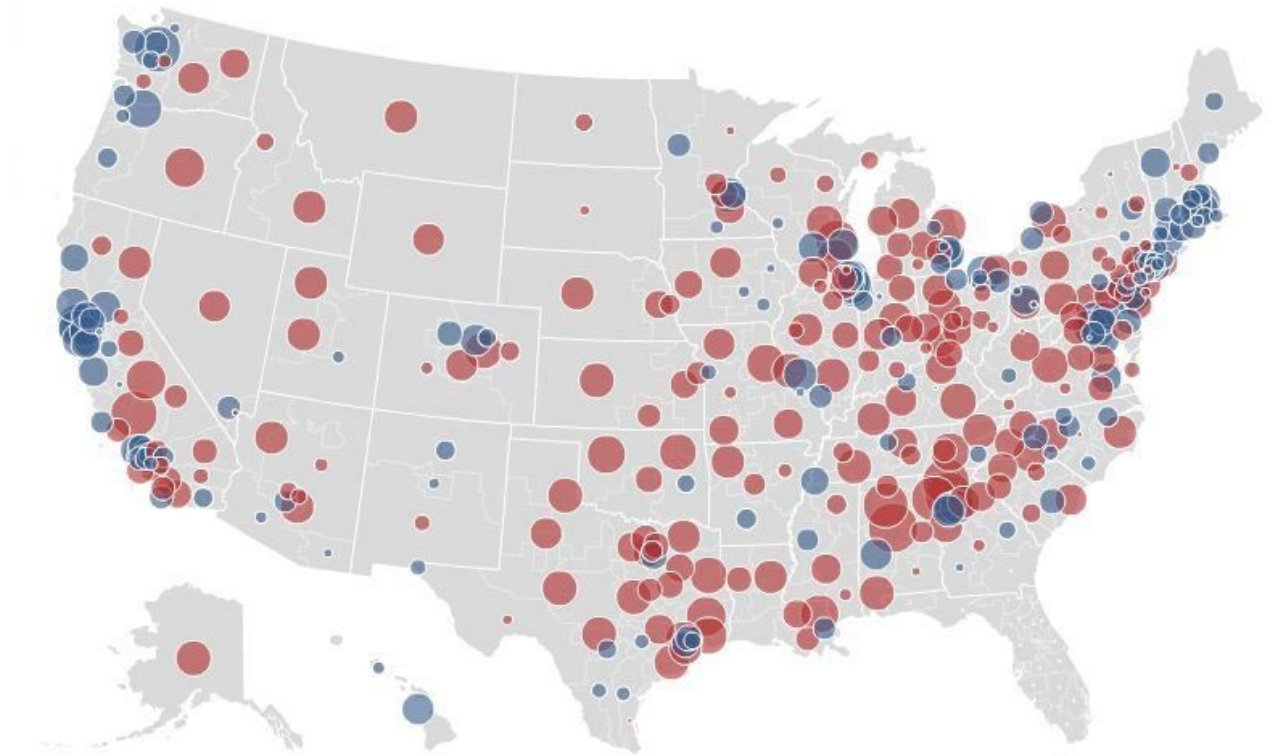
3. Natural Language Processing

... Improve the model using NLP techniques provided along the course.



4. Visualize your data

... Develop a tool to represent your data .



5. Get your best score!

... Deliver your model and beat the accuracy obtained by other groups.



Notebook time!

Next steps?

Capstone Project Session

November 17th

- 1) During this weeks you will learn some data science basis that could be used in order to solve the problem
 - 2) We expect that you apply the concepts you learn in order to explore/solve the proposed project
 - 3) During the session the professors will act as Expert Consultants. So come prepared and ask as many questions as you want!
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NOW?

It's time to meet each other
and
create a team
