Capstone Project

Postgraduate Course on Data Science & Big Data

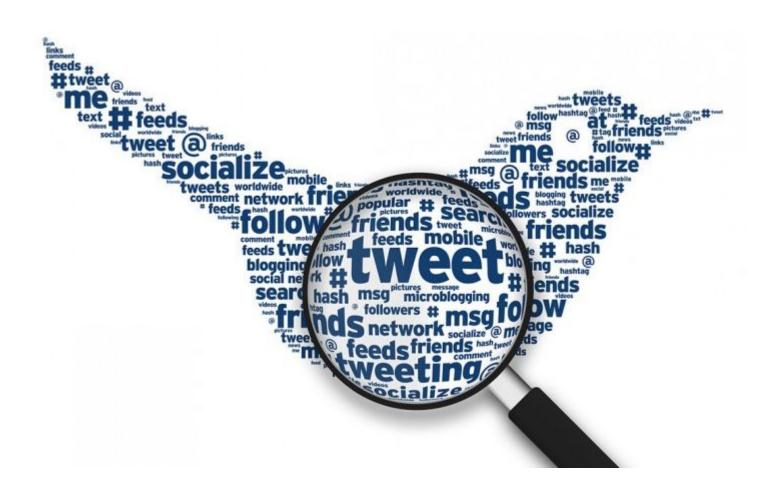


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The problem

Text classification



of politicians and parties in Twitter



Xavier García Albiol 📀 @Albiol_XG · 18 nov.

Vergüenza e indignidad. No se puede humillar a más catalanes que nos sentimos españoles, en menos tiempo.



Miquel Iceta Llorens @miqueliceta · 4h

Cada día,un haiku. Hoy os ofrezco un poema de Natsume Soseki poesiajaponesa.wordpress.com/2018/11/19/nat... via @migueliceta



Quim Torra i Pla 🔮 @QuimTorraiPla · 4h

Una altra evidència que a l'estat espanyol la justícia és un mercadeig entre el PSOE i el PP i que l'estat de dret i les llibertats no estan garantides per a cap ciutadà. No hi ha independència judicial, ni imparcialitat ni integritat.



Inés Arrimadas 🤣 @InesArrimadas · 23h

Esto pasa cuando el Gobierno tiene como socios a quienes quieren liquidar España: se gastan el dinero de todos en propaganda e ilegalidades. Con tal de estar más tiempo en Moncloa, Sánchez prefiere mirar hacia otro lado que defender a los españoles.











Team-based project

- 4 people per team
- 4 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



Notebook time!

Project outline

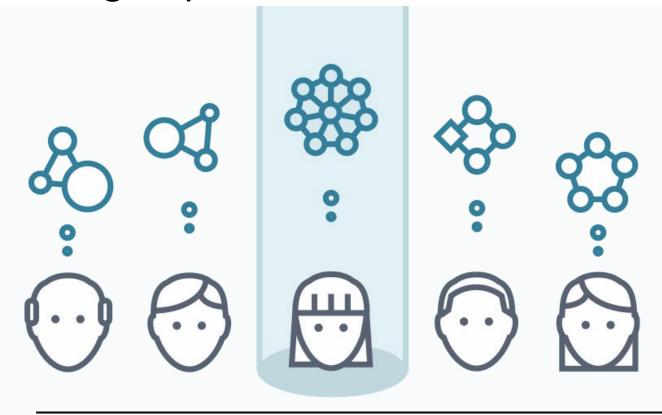
o. Get in touch with the data

... Explore the data provided in this



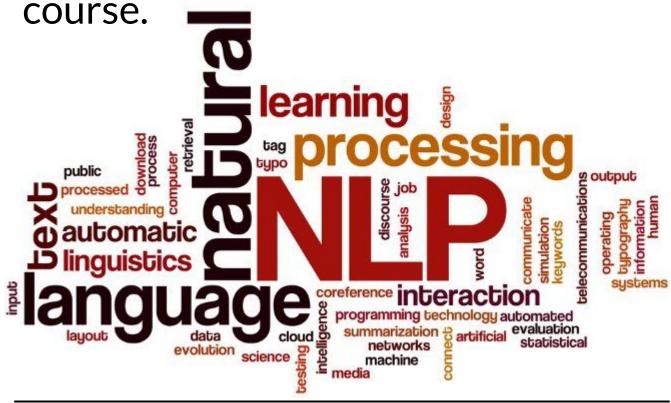
1. Join Kaggle

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



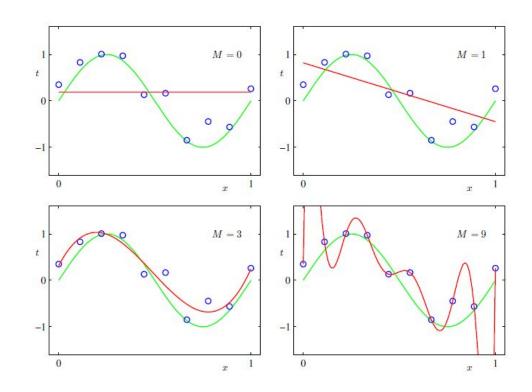
2. Feature engineering

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



3. Model selection

... Push the limits finding the optimal model and parameters.



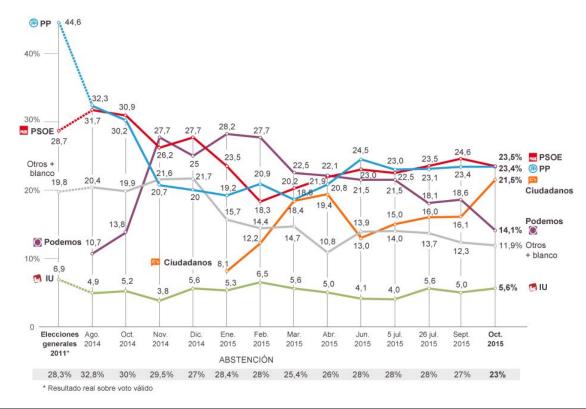
4. Get your best score!

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



5. Create a Data Story

... Explain your data story with graphics and models.



Next steps?

Capstone Project Session January 31st

- Apply the concepts learnt in class to explore/solve the proposed project **only** by doing data engineering, without modifying the model
 - Mandatorily submit a model to Kaggle
- Professors will act as Expert Consultants during all sessions. So come prepared and ask as many questions as you want!

NOW?

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