Quick introabout the TFM

Master in Data Science, 8th ed. MAD

Goals of the TFM

- Students will show their capability to work as data scientists
- Starting from raw data, all the way up to solving a research question
- TFM will include the following phases:
 - Data acquisition
 - Data cleansing and preparation
 - Analysis
 - Frontend / visualization
- The question can be refined after several iterations working with the data

Deliverables

- Repository with all the code and ready to be executed
 - Please provide instructions to install any package or dependency.
- Document explaining the TFM
 - Two objectives to be optimized with the document:
 - As brief as possible
 - But at the same time containing enough details so the work could be replicated
- Any data scientist with the document and the repository should be able to replicate the TFM

Suggested structure of the document

- Introduction: what, why, why is it relevant, any previous related work/state of the art
- Raw data description
- Methodology: machine learning techniques used, statistical methodologies
- Summary of main results
 - Detailed results will be available by running the code in the repo
- Conclusions
 - Not a summary of the work. The problem was relevant, now with your work, what can you say about how the problem is solved?
- User manual for the frontend

Technical restrictions

- None
- You can use any technology
 - As long as the evaluators can get access to that technology too

Phases during the master

- Write message in Basecamp specifying topic, link to repo and group
 - Message topic should start with [TFM]
 - 1 or 2 people per group
 - Deadline: October 30th
 - PLEASE DON'T WRITE ME AN EMAIL, post in Basecamp
- Deliver repo and main document
 - Include the document in the repo
 - Deadline: December 19th

Recommendations with the repo:

- Public repo for greater visibility
 - Better future opportunities
- Please don't upload private data to the repo
- Clean repo, with proper README.md
- Preferably in English
 - But not mandatory

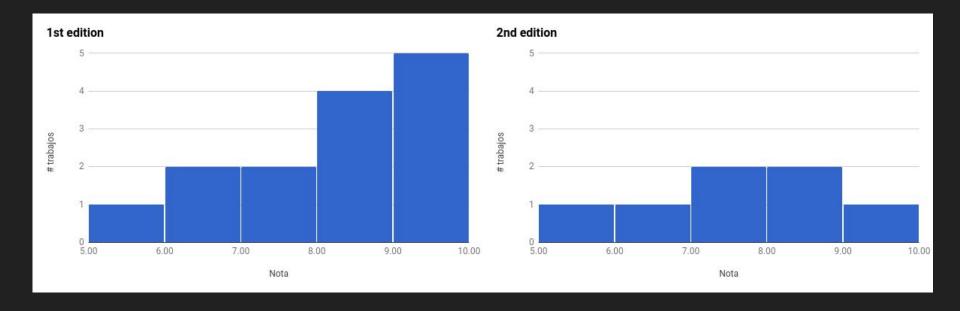
Evaluation criteria

- Clarity in the document, easiness to replicate work
- Complexity
 - In the data and the analysis methodologies
 - More complex is better.
- Clarity and correctness of source code
- Relevance and fit-to-purpose of the chosen analytical methods
- Relevance and fit-to-purpose of the chosen technologies
- UX and usability of the frontend
 - We will evaluate as the "consumer" of the report, with zero knowledge of data science
- 0-10 points
 - 0.1 points less per hour of delay

Links

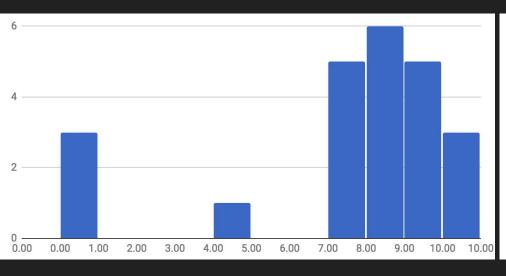
- Rules for the TFM
- List of previous TFMs (see message in Basecamp)
- Some links in the KSchool web
 - http://kschool.com/blog/data-science/martacamarads/
 - http://kschool.com/blog/big-data/jmvaldeolmillos/
 - http://kschool.com/blog/formacion/gonzalo-sanchez-tfm-data-science/
 - http://kschool.com/blog/data-science/jose-manuel-vera-data-scientist/
 - http://kschool.com/blog/data-science/tfm-data-science-describiendo-tendencias-busquedas-go ogle-utilizando-tweets-relacionados/
 - http://kschool.com/blog/data-science/tfm-data-science-manuel-maestre-estimacion-precios-del -alquiler/
 - http://kschool.com/blog/data-science/tfm-data-science-banca/

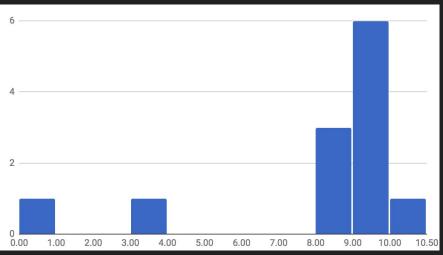
Results of previous editions



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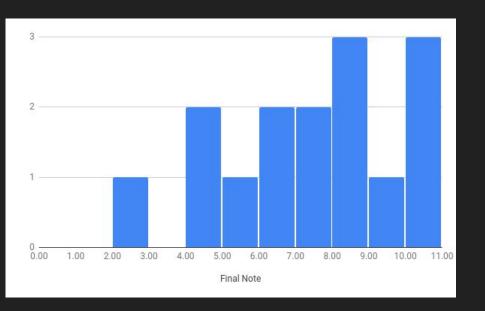
3rd edition 4th edition



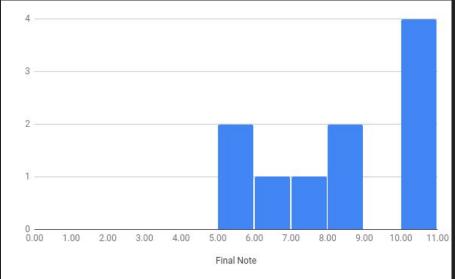


Results of previous editions

5th edition



6th edition



Questions?

- I don't find data for my idea
 - We can share data and propose a topic
 - Airlines' customers segmentation
 - Analysis of factors affecting flight delays
 - Analysis of the Ethereum blockchain
- Can I repeat the same topic of a previous TFM?
 - Yes
- More questions :)