





STATEMENT OF WORK

NATURE OF PROJECT:	ML Challenge
PROJECT REFERENCE NAME:	Analysis of comments on Glassdoor

Section 1.

Description of Services to be completed by:

1. Project: Analysis of comments on Glassdoor

Glassdoor – Companies Feedback Analysis (Advantages, Disadvantages) (Web Scraping, NLP analysis, English and Spanish)

Human resource needs

- Web Scraper Specialist
- Python developer
- Data Scientist
- MLOps

The project should be completed in several stages:

- Stage 1 Will create a pipeline to extract Information of website Glassdoor
 - Web Scraping

This endpoint will receive as input Web scrapping:

- Open web page
- Read the content
- Extract content by globant
- Save all in a data frame
- Stage 2 Will create a model to classifier and make a sentiment analysis







Text Preprocessing

This endpoint will receive as input Web scrapping result in a data frame

- Create English-Spanish data frame
- Analyze Separately Spanish and English data frame (Corpus)
- Data cleaning
- Stop words.
- Lemmatization
- N-grmas Distributions

Classification proposed

This endpoint will receive as input parameters of text preprocessing:

- Construction model
- End Date (date time)
- Taring model
- Calculation of grammatical probabilities

Extraction of main features

- Classification
- Sentimental Analysis (pysentimiento vs vader)

Stage 3 Create a pipeline to MLOps

- The MLOps part will be done with mlflow performing the following tasks
 - Log metrics
 - Model signatures
 - Save the plot and log it as an artifact
 - Tracking url (localhost)
 - Run MLOps

Section 2.

Other Notes and Considerations:

- Use a personal account per team to connect to git hub
- Best Practices matters







- Code should be continuously uploaded to a list of users will be provided to be added as collaborators to the repo.
- Validate input parameters (Web scraping and data frame) of all requests
- Exception handling is excepted

Section 3.

Documentation

Expected documentation should be in English and will include:

- Web Scraping
- Model Construction
- MLOps
- Instructions on how to pull the code from github, compile, run the solution and post a request. These instructions are targeted to technical.

Extra documentation (nice to have):

• Architecture Diagrams