COHORT7-TEAM JOHNSON-SIRLEAF
AI-SATURDAY, LAGOS, NIGERIA
01.12.2021

REALICE (coined from the words REAL and POLICE)

A project that focuses on documenting citizen's realities(positive and negative) with the Nigerian Police Force.

Disclaimer:

This project was NOT developed to ridicule the tireless efforts of security officers who risk their lives to protect ordinary citizens from crimes and harms daily. Though this project has no sponsorships, endorsements or affiliations from any group, political, pressure or Civil Societies, it was set up simply for learning as well as reference purposes. PROJECT "REALICE" tried to pay tribute to persons, unverified or undocumented, who had died from the brutality of security forces, likewise to honour our "Heroes in Uniforms" who had died at their line of duty.

Project Description:

Drawing inspiration from the works of Ben Schmidt, Professor of history at Northeastern University, who collected over 10 million responses, describing Male and Female Professors, from their students opinion, a live demo is available here.
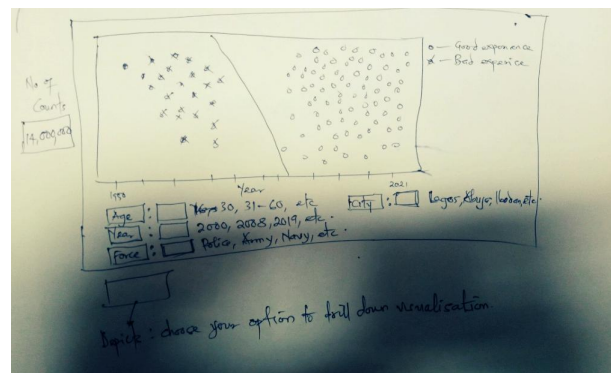
Our team was inspired to build a full stack data science project designed to assist in obtaining and analyzing citizens' feelings in relation to the current state of security forces activities in a single word-chart which is similar to the former done by Ben Schmidt.

The outcomes of the project includes:

1. Classification counts of experience either as positive or negative
2. Age classification with reference to (1).
3. Drilling down to respective security forces activities (Police, Army, Civil Defence, Airforce, Navy, Vigilante, Task Forces etc) in the state.
4. A summary progress bar on the confidence level of citizens on security forces.

5. Suggestion page where public opinions on improving services delivery to citizens are collated.

A typical prototype of the proposed visualisation is given below with this some modification:

Project Method:

Data collection: Using a google form which I have attached <u>here</u>.

Data Preprocessing: Cleaning of typographical errors, repeated columns and counts to eliminate errors.

Data Visualisation: Building a dashboard/charts or pictorial illustration on the one word describing the different Nigeria Security forces.

Data Labelling: Labelling the different comments attached to the column for recommendation.

Data Modeling: Base model comparison, hyper-parameter tuning and monitoring with experiment management. The major features to be concentrated on are: age, location, good or bad experience and specific security outfits.

Model Testing and Evaluation: Testing and reducing inherent bias.

Model Documentation and Deployment: Using AI Saturday github page to write cron jobs and other technical details.

Hosting: Using Free Netlify subscription to host the frontend and heroku for backend. Also further developments and recommendations can be made by the pioneer team or future cohort team.

Project Goals:

1. A sentiment on the performance of Security Forces and their activities.

2. A possible big data pipeline for all evidence of security force accountability and other related actions for open source sharing with other developers.

Project Role and Task Schedules:

<u>Roles:</u>

- Project Lead - Margaret
- Assistant Project Lead - Dimaria
- Data Collection -
  - Margaret
  - Dimaria
  - Peace
  - Abraham
- Data Analysis/Visualization
  - Dimaria
  - Adara
  - Margaret
- Data Preprocessing -
  - Margaret
  - Adara
- Content Creation
  - Margaret
- Frontend
  - Dimaria
  - Oladev
- Backend
  - Abraham
  - Oladev

Project Timeline

Data Collection: 2 weeks (26th Dec - 8th Jan 2022).

Data Cleaning and Modelling: (9th Jan - 15th Jan 2022)

Data Deployment and Testing: (16th Jan - 23rd Jan 2022)

Launching:

Conclusion

This is a mini-project that can be undertaken without any attempt to ridicule or undermine any existing authorities. We suggest this project because it covers all we have been taught although not with heavy or more intense application but a good way to test our team spirit, ability to solve problems and most importantly start practicing by getting a job by adding this to our portfolio.

Suggestions on Questionnaire

Kindly reword or modify the following as shown below:

1. Change "Have you ever had positive experience with any of the Nigerian Security Agency or Commission?" to How often have you had a positive experience with any of the Nigerian Security Agency or Commission in a week?

   Options should be - rarely, often, always, etc

2. Describe the positive experience
3. Follow up question should be How often have you had a negative experience with any of the Nigerian Security Agency or Commission in a week?

   Options should be - rarely, often, always, etc

4. Describe the negative experience - classified into traffic, crime, extortion related issues

References

- Image credit: @chisomloius

- http://benschmidt.org/profGender
- https://matplotlib.org/
- https://seaborn.pydata.org/
- https://www.oreilly.com/library/view/python-data-science/9781491912126/ch04.html
- https://nairametrics.com/wp-content/uploads/2013/02/police-community-violence.pdf
- https://www.researchgate.net/publication/342038754_UNLAWFUL_KILLINGS_OF_CIVILIANS_BY_OFFICERS_OF_THE_SPECIAL_ANTI-_ROBBERY_SQUAD_SARS_UNIT_OF_THE_NIGERIAN_POLICE_IN_SOUTHWEST_NIGERIA_IMPLICATIONS_FOR_NATIONAL_SECURITY
- https://www.researchgate.net/publication/327968817_Systematic_Brutality_Torture_and_Abuse_of_Human_Rights_by_the_Nigerian_Police_Accounts_of_Inmates_of_Ogun_State_Prisons
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