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Project Report:

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For the People

PROBLEM SUMMARY(ABSTRACT)

Peoples feedback is an important aspect of democracy and this often gets overlooked in India. In this project, we aim to get feedback of willing people by making certain online platforms that are open to all. We plan to closely analyze these inputs from the people and extract important parameters, like the problem, location, which department/ministry it is falling under, frequency of submission. This data would be then submitted to the authority of city/state and hence they can be notified about the persisting issues under their locality. Hence by getting such feedbacks, analyzing them closely and solving problems, we aim to help people resolve their problems and work as a stepping stone towards perfect democracy.

The services which are provided by the government with an assurance For the People are built and never looked upon unless there is wreckage in their daily functioning. Since we live in a democracy, it becomes our right to enjoy every service in its best possible way. Hence, we aim to solve this problem by creating online platforms immersed with data analytics.

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I. INTRODUCTION

The central intuition behind the working of this system is to let people enjoy real democracy. We observed that a lot of recent movements and bills targeted the citizen's privacy or were against the will of citizens.
And lots of influential voices and opinions were left unheard. And this continues and keeps getting deep-rooted with every passing day.

Other than that, the genal grievances of the people remain unheard by the intuitions that were established to solved them
The major reason behind all the above being lack of a system that can meaning fully collect, organise and represent to the above-mentioned authorities

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II.Machine Learning tools

spaCy: It is a NLP framework designed upon industry standards to make using NLP easier and more efficient .It also provides many pretrained models to help with the Natural Language processing. spaCy is used my almost all the tech giants like Microsoft , Amazon and Google.

en_core_web_sm: It is a English multi-task CNN trained on OntoNotes. Assigns context- specific token vectors, POS tags, dependency parse and named entities.
NLTK: or Natural language tool kit is a leading platform for building Python programs to work with human language data. It is easy to use and has a corpora of 50 and lexical resources such as WordNet, along with a suite of text processing libraries for classification, tokenization, stemming, tagging, parsing, and semantic reasoning, wrappers for industrial-strength NLP libraries

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III.SCOPE/APPLICATION

Public Grievance reporting system
Anonymous crime reporting
Fasttrack

Quantitively analysis of
Individual govt. bodies

Macro Analysis of individual
Grievances report to help better allocate budget of
Country

Expansion on the E-
Governance OutbreakPrediction

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IV.COMPONENTS IV.1 Python

Fig 1. Python

Python is used successfully in thousands of real-world business applications around the world, including many large and mission critical systems. Python is an interpreter based high level programming language Created by Guido van Rossum and first released in 1991, Python has recently gained popularity to become the most widely used language in the world. And it as one of the best community support which is a contributing factor to this meteoric rise.

IV.2 spaCy

Fig 2. Spacy
spaCy is a NLP framework designed upon industry standards to make using NLP easier and more efficient .It also provides many pretrained models to help with the Natural Language processing.
spaCy is used my almost all the tech giants like Microsoft , Amazon and Google.
IV.3 Flask

Fig 3. Flask

Flask is a micro web framework written in Python. It is classified as a microframework because it does not require particular tools or libraries. It has no database abstraction layer, form validation, or any other components where pre-existing third-party libraries provide common functions.
However, Flask supports extensions that can add application features as if they were implemented in Flask itself. Extensions exist for object-relational mappers, form validation, upload handling, various open authentication technologies and several common framework related tools. Extensions

9

7

are updated far more frequently than the core Flask program. Applications that use the Flask framework include Pinterest and LinkedIn.

IV.4 Selenium

Fig 4. Selenium

Selenium is a framework for testing applications and scraping the web using scripting languages like python, ruby, Perl and groovy. It runs on windows , Linux and mac os and is distributed under an open source software license

IV.5 Flutter

Fig 5. Flutter

Flutter is Googles UI toolkit for building beautiful, natively compiled applications for mobile, web, and desktop from a single codebase.

IV.6 Firebase

Fig 6. Firebase

Firebase is a mobile and web application development platform developed by Firebase, Inc. in 2011, then acquired by Google in 2014. Firebase is an example of backend as a service and provides the fastest NO-SQL Database in the world.

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V.BLOCK DIAGRAM

Overall Block Diagram of system

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VI.FLOW CHART
VI.1: Flowchart part 1:

NLP Engine Flowchart

10

VI.2: Flowchart part 2:

Macro Analysis Engine Flowchart

11

VI.3: Flowchart part 3:

E-Governance Flowchart

12

VII.Work Done

WORK STATUS
NLP engine

NLP Feedback System

Web Panels

Mobile Applications

Social Media bots

Macro Analysis Engine

E-Governance

13

VIII.Work Pending

Work pending Weeks

Macro Analysis Engine 1.5 Weeks

Human Classifier 0.5 Weeks

14

IX. Results

A. Android application

Fig 7. Main page Fig 8. Grievance reporting Fig 9. Bills to view and vote

Fig 10. Voting: support or against Fig 11. Sign in page

15

B. Website webpages

Fig 12. Home Page

Fig 13. Classified reports page

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Fig 14. Votes analysis page

Fig 15. Entity adder page

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X.REFERENCES

Fix-my-Street, Brazil
Zubair Bhattis work using pro-active citizen feedback
UKs nudge unit used in organ donation

Websites 1. Selenium web-driver documentation https://selenium-python.readthedocs.io/ 2. Python https://en.wikipedia.org/wiki/Python_(programming_language) 3. NLTK documentation https://www.nltk.org/ 4. Flask Documentation https://flask.palletsprojects.com/en/1.1.x/ 5. Firestore Documentation https://firebase.google.com/docs/firestore

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Results

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Dec 12, 2019 · "Flutter is Google's UI toolkit for building beautiful, natively compiled applications for mobile, web, and desktop from a single codebase." - Google, flutter.dev Why you should learn Flutter? I selected some of the reasons why I like Flutter and why I want to use it next year. I will give you details and my feedback below. Companies ...

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Url: https://firebaseopensource.com/projects/firebaseextended/flutterfire/

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Flutter Awesome Gallery - Apps on Google Play

May 17, 2020 · Flutter is Google`s UI toolkit for building beautiful natively compiled application for mobile web and desktop from a single codebase Credit:-FLutter Gallery app which is open source which help me a lot to buit this amazing app check it out This app is open source.

Url: https://play.google.com/store/apps/details?id=flutter.awesome.gallery&hl=en_US

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A Complete Flutter Tutorial for Free - FlutterOwl

Flutter is a Google's portable UI toolkit for building beautiful, natively-compiled applications for mobile, web, and desktop from a single codebase.

Url: https://flutterowl.com/

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Flutter - Beautiful native apps in record time

Flutter is Google's UI toolkit for building beautiful, natively compiled applications for mobile, web, and desktop from a single codebase.

Url: https://flutter.dev/

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Flutter - Beautiful native apps in record time

Flutter is Google's UI toolkit for building beautiful, natively compiled applications for mobile, web, and desktop from a single codebase.

Url: https://flutter.dev/?gclsrc=aw.ds

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Flutter - Google's new UI toolkit for building beautiful …

Flutter - Google's new UI toolkit for building beautiful, natively compiled applications for mobile, web, and desktop from a single codebase

Url: https://www.reddit.com/r/userexperience/comments/g0v160/flutter_googles_new_ui_toolkit_for_building/

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Python Tutorial | DevGlan

Python is a popular and powerful programming language created by Guido van Rossum and first released in 1991. Python has become one of the most preferred languages in modern days with an increase in demand for data scientists, Artificial Intelligence and also due to its easy-to-use syntax.

Url: https://www.devglan.com/tutorials/python-tutorial

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8 Best Data Labeling Tools for Machine Learning Projects …

Nov 15, 2019 · Generating labeled training data requires a great deal of time, effort, and investment. If you're building a machine learning model, chances are you're going to need data labeling tools to quickly put together datasets and ensure high-quality data production.

Url: https://lionbridge.ai/articles/best-data-labeling-tools-machine-learning-projects/

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