

Padre Conceicao College of Engineering

**Department of Computer Engineering
Presents**


Techyon 2022-DataHack

Team Name :- DataER

Theme

Understanding the
sentiments of Tweets over
Rishi Sunak Victory



The Twitter logo, a white bird silhouette, is centered in the background of the slide. It is set against a light blue rectangular field that occupies the central portion of the image. The text is overlaid on this field.

Twitter is used to get the latest updates and promotions from brands; and follow business leaders, **politicians** and celebrities.



On **24th Oct 2022,**

Rishi Sunak swore in as the
British Prime Minister. He is the
youngest and first Non White PM
of Britain.

We wanted to do a brief **Sentiment Analysis** of the Tweets over his candidature

↻ Dan Wootton Retweeted



David C Bannerman ✓ @DCBM... · 25m

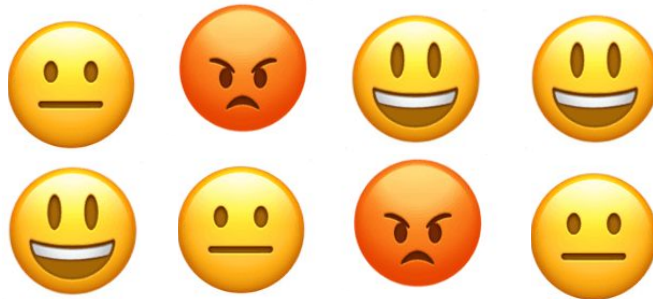


💬 422 ↻ 288 ❤️ 598 🔗



Piers Morgan ✓
@piersmorgan

Rishi Sunak's speech today was smart, focused, serious, honest & purposeful. The grown-ups are back in charge.

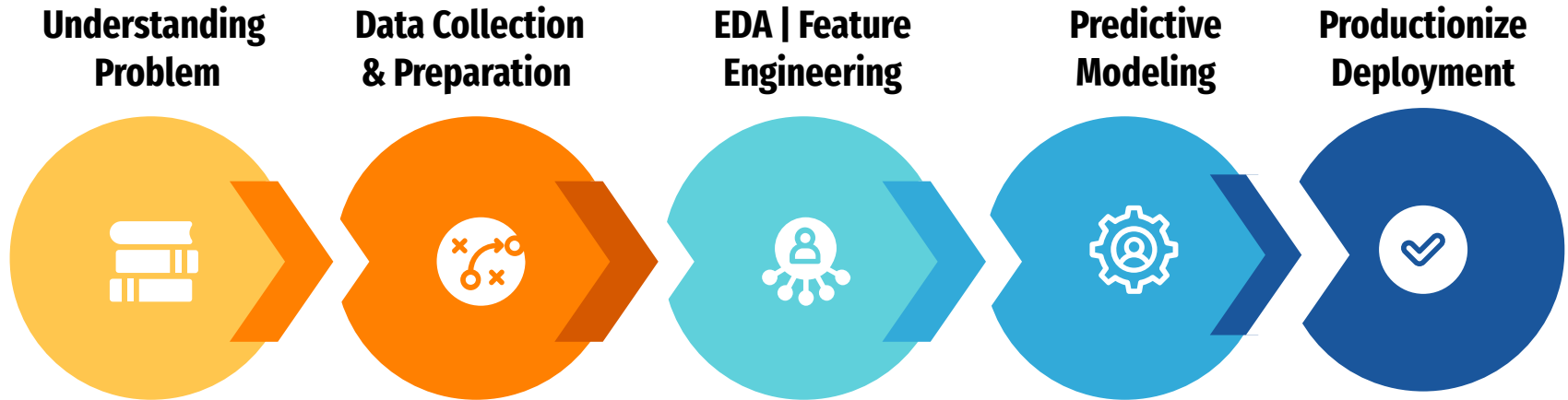


Proposed Solution

- Using Twitter developer API and open source **Tweepy** library we were able to gather real-time tweets about Rishi Sunak about 9 CSV files tweets each with 100 tweets of different timestamp.
- We then proceeded to join these and clean data.(Removing the null values, punctuations , unnecessary links and emojis).
- After having a cleaned and preprocessed data . We proceeded with EDA to understand some basics info about the fetched data. Further we went on to understand the intention of tweets using different libraries of python.

- We used different libraries like Pattern , BERT , Scikit Learn , Spacy ,VADER and TextBlob . We choose VADER for its amazing features.
- VADER calculates the text sentiment and returns the probability of a given input sentence to be positive, negative, or neutral. The tool can analyze data from all sorts of social media platforms, such as Twitter and Facebook.
- We labelled the data using it as positive or negative.

Solution Architecture



Deliverables

- Twitter API Scraper Notebook
- Scrapped Dataset
- Cleaned Dataset
- Sentiment Classification Notebook
- Word Cloud of Tweets
- Project Report(Initial Submission)