Machine Learning Canvas

Product:

Authors:

Date:

Version:

SentiVista

G.Ihabe, F.Robert

20/02/25

V0

Background

Organizations need quick, automatic sentiment insights to replace manual analysis of large social data

Solution

- -Use NLP
- -Clean historical data
- -EDA

Data

- -Sentiment140 (1.6M tweets) -Option for real time data
- -Pre-labeled sentiments

Modeling

Inference

do later real time

At first batch analysis and may

Start simple then do fineTuning and compute metrics and iterate with feedback

Feedback

- -Collecting rating/comments
- -Monitor performance
- -A/B test models

Value proposition

polarity(0=neg, 4=pos) to



-A sentiment model predicting tweet monitor trends, market moves, and event impact

Metrics

Accuracy, precision, F1, recall

Trend correlation, User feedback

Project

- -Team: Guenfoudi Ihabe. Florea Robert
- -Deliverables: Model. Dashboard, report
- -Timeline:

Week 1,2 : Preprocess

Week 3,4 : Baseline

Week 5,7: Refinement

Week 8-10: Evaluation

Feasibility

- -Data: Sentiment140 (1.6M tweets)
- Adequate computing -> Google cloud
- -Risk : dataset age ; update if needed

Evaluation

splits

Online: Controlled deployment & feedback

Offline: train/validate/test



Objectives

- Aggregate trends

-Develop dashboard

-Preprocess 1.6M tweets

-Build and optimize classifier

Machine learning canvas from Made With ML by Goku Mohandas License: CC BY-SA 4.0













