

Implementing a Classification and Filtering App for Multilingual Facebook Comments - A Use Case Of Data For Good with R

CorrelAid e.V.

useR 2019 – Toulouse



CorrelAid e.V.
(est. 2015)



Skilled Volunteering: Data Science Projects with social organisations



Plattform: A network of 850 data scientists for learning, exchanging ideas and growing together



Dialogue: Bridge the gap between data science and non-profit sector



CorrelAid e.V.
(est. 2015)



Skilled Volunteering: Data Science Projects with social organisations



Plattform: A network of 850 data scientists for learning, exchanging ideas and growing together



Dialogue: Bridge the gap between data science and non-profit sector



CorrelAid e.V.
(est. 2015)



Skilled Volunteering: Data Science Projects with social organisations



Plattform: A network of 850 data scientists for learning, exchanging ideas and growing together



Dialogue: Bridge the gap between data science and non-profit sector

Use Case

- Minor – a German organisation offering legal advisory for marginalised groups
- Volunteers monitor Facebook Groups organised by expats and give guidance if needed
- Data Science Problem: Classifying and filtering multilingual Facebook comments, including English, Bulgarian and Arabic
- Project Team: Christian Moreau, Katharina Kloppenborg, Moritz Fahrenholz, Navid Ghayazi

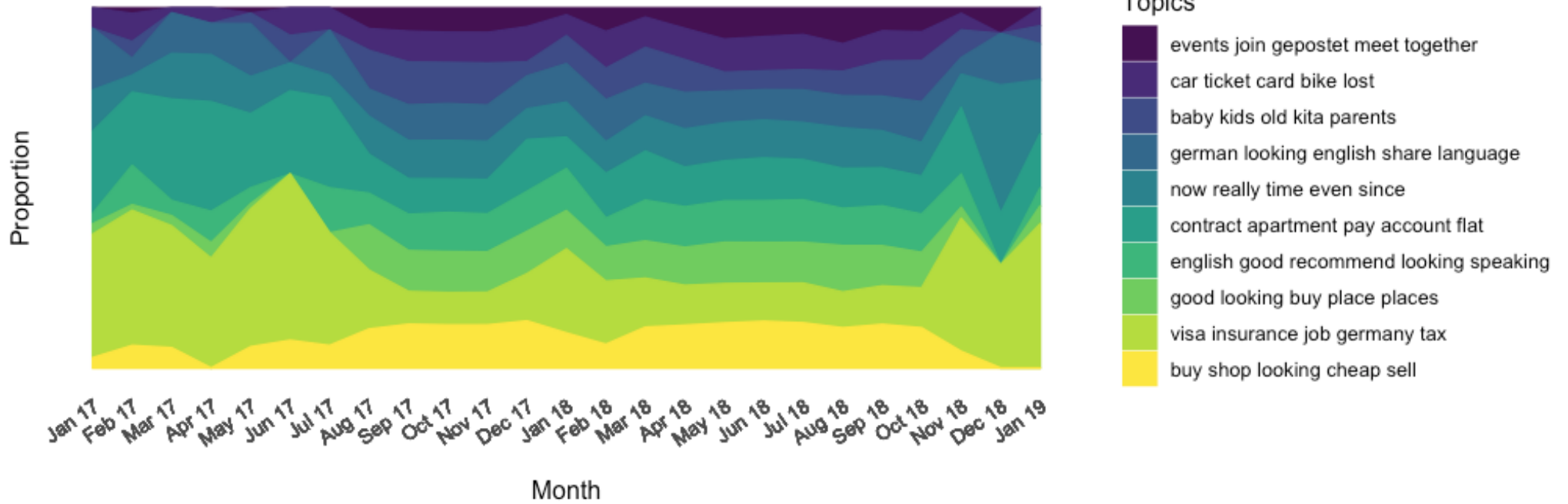
Use Case

- Minor – a German organisation offering legal advisory for marginalised groups
- Volunteers monitor Facebook Groups organised by expats and give guidance if needed
- Data Science Problem: Classifying and filtering multilingual Facebook comments, including English, Bulgarian and Arabic
- Project Team: Christian Moreau, Katharina Kloppenborg, Moritz Fahrenholz, Navid Ghayazi

Use Case

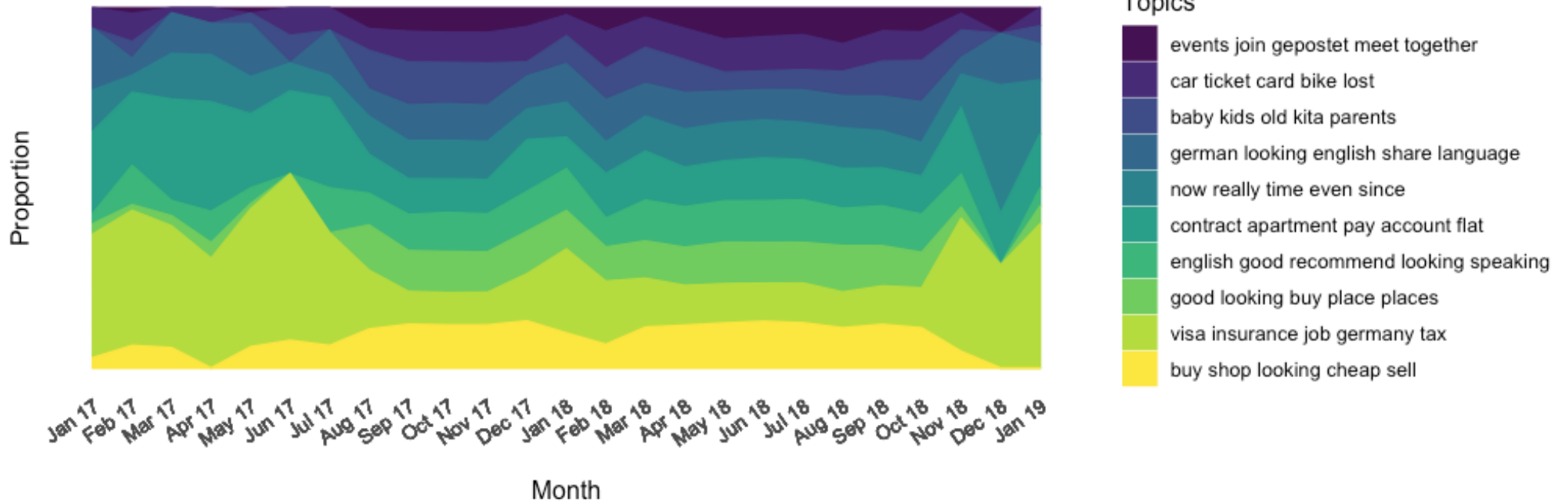
- Minor – a German organisation offering legal advisory for marginalised groups
- Volunteers monitor Facebook Groups organised by expats and give guidance if needed
- Data Science Problem: Classifying and filtering multilingual Facebook comments, including English, Bulgarian and Arabic
- Project Team: Christian Moreau, Katharina Kloppenborg, Moritz Fahrenholz, Navid Ghayazi

Change in Topic Prevalence Over Time

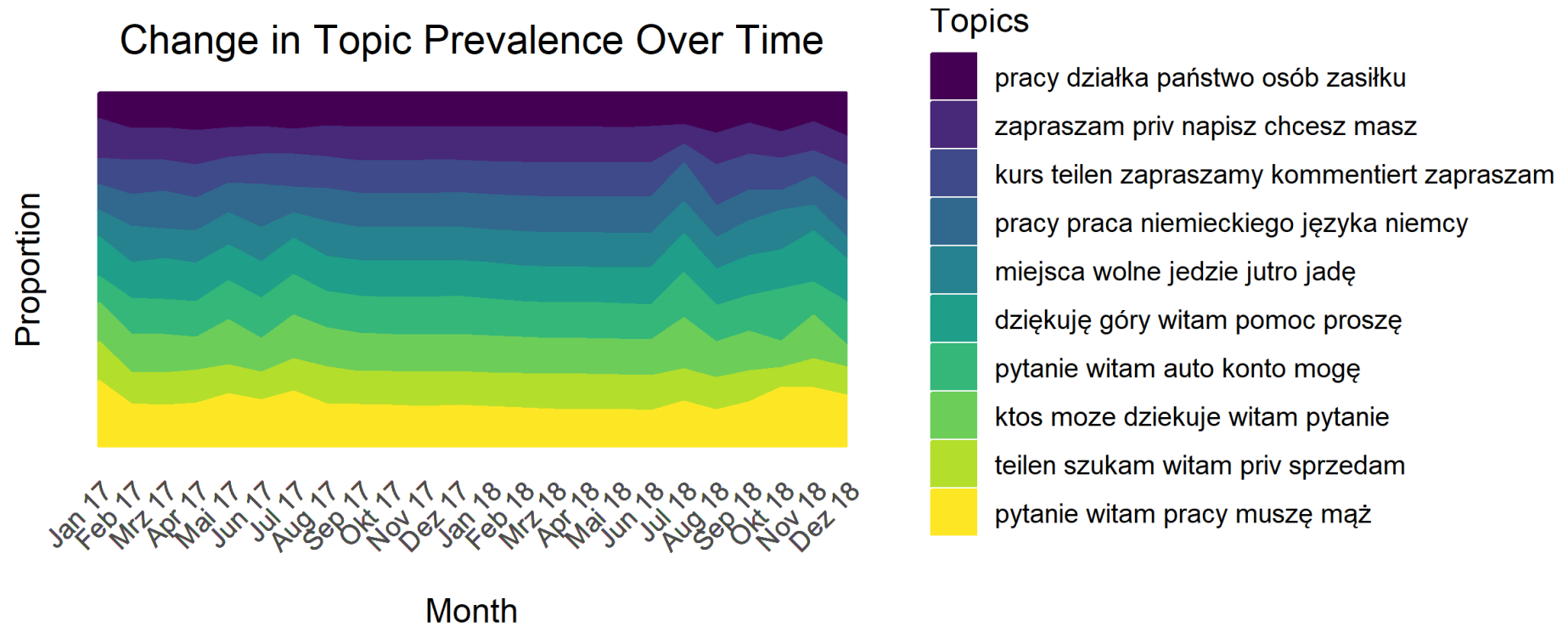


Topic Modelling

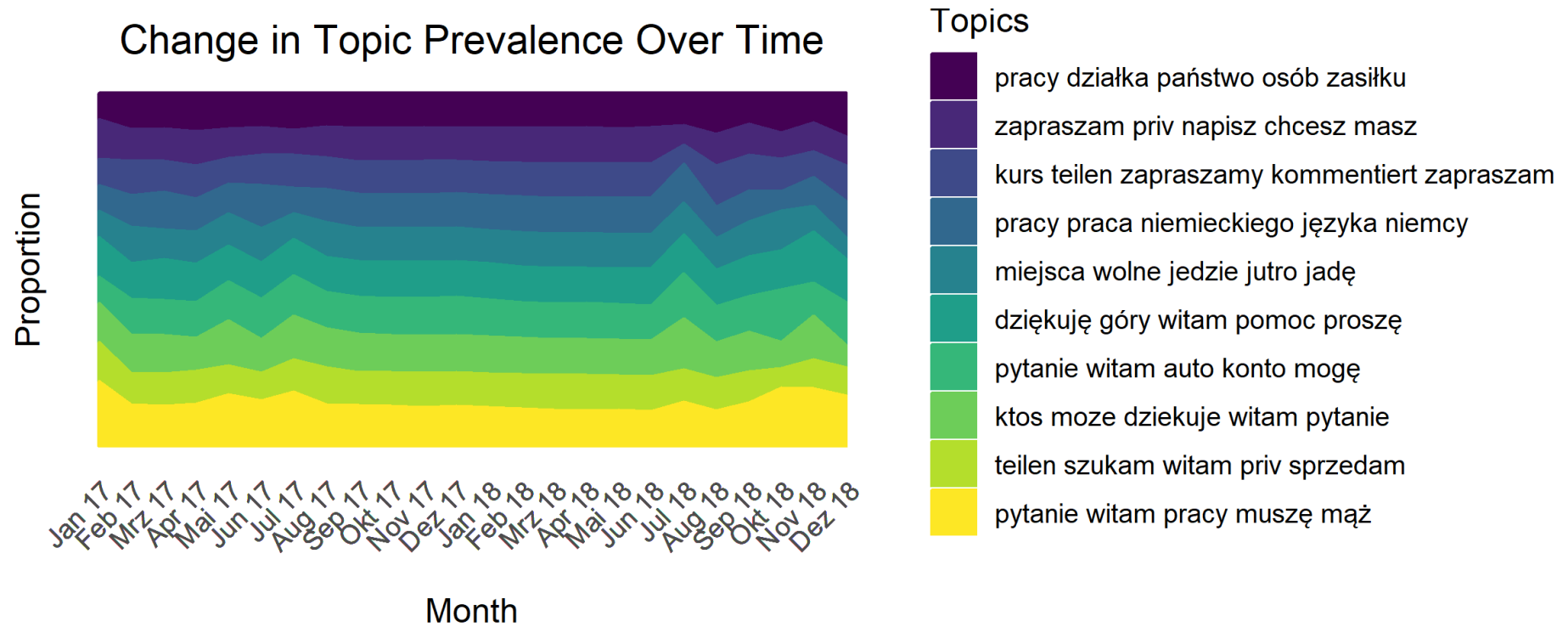
Change in Topic Prevalence Over Time



Topic Modelling

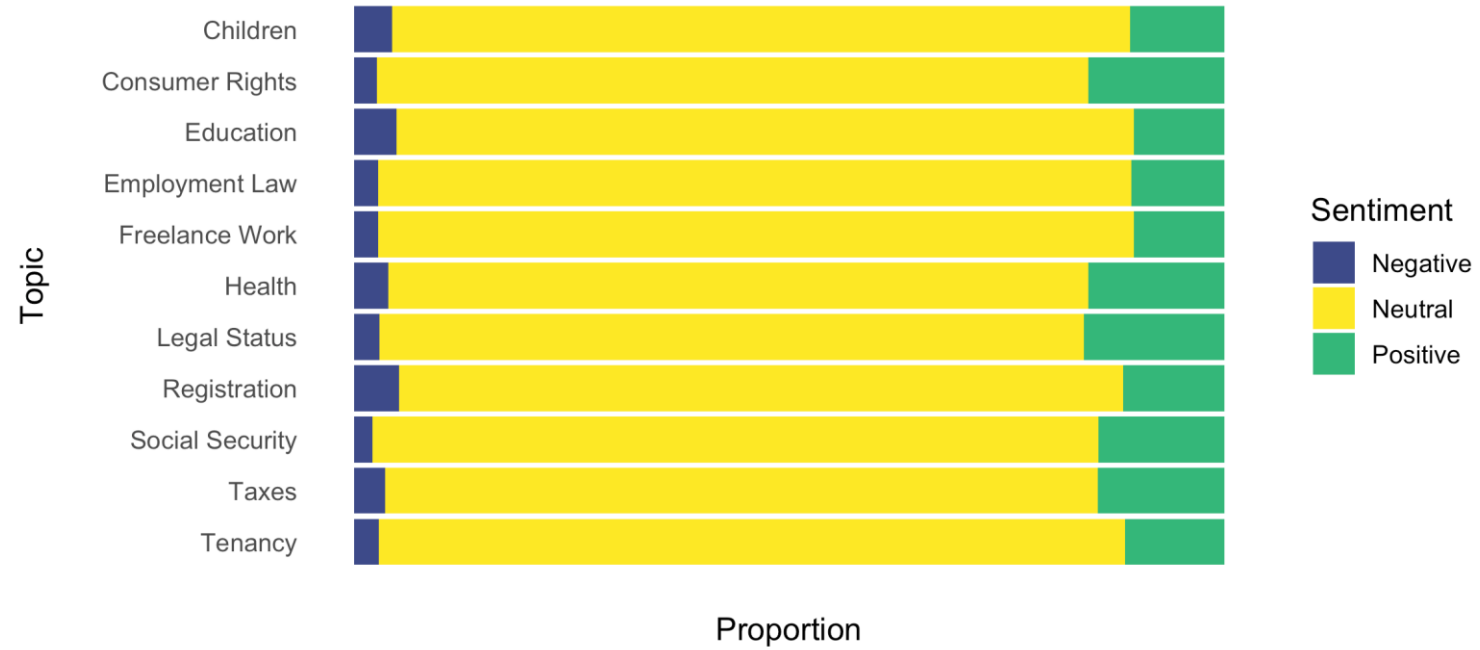


Topic Modelling (Polish)



Topic Modelling (Polish)

Proportions of Mean Sentiment Values per Topic (English)



Sentiment Analysis

Impact

- **Minor:** Making better use of volunteers
- **Policymakers:** Tracking issues of importance and making evidence-based decisions
- **Data Scientists:** Dealing with real-world data and challenges faced by NPO organisations

Impact

- **NPO:** Making better use of volunteers
- **Policymakers:** Tracking issues of importance and making evidence-based decisions
- **Data Scientists:** Dealing with real-world data and challenges faced by NPO organisations

Say hello...

www.correlaid.org

Twitter: @correlaid

Mail: johannes.m@correlaid.org