Gökhan Çiflikli, Ph.D.

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I am data scientist specialising in machine learning, natural language processing (NLP), and data visualisation. I develop interactive and scalable software to generate dynamic insights from data.

EXPERIENCE

- **Uppsala University** — Uppsala, Sweden
  Programmer (Remote) — *Jan 2019 - Present*
    - **Natural Language Processing**: I employ industrial solutions (SpaCy) to tokenise unstructured text mined from aggregated news sources, human rights reports, and witness accounts.
    - **Quantitative Text Analysis**: I work on constructing meaning to tokenised text (approx. 48 million) that are actionable for policy makers and researchers. These features include mapping organisational tactics and target demographics to the actors on the ground.
    - **Supervised Learning**: I train several predictive models of binary- and multi-classification algorithms (Naive Bayes, Random Forest, XGBoost) to automate the labelling process using a sample set of annotated events coded by humans.
    - **Active Learning**: To complement the above, I keep the human annotators in the loop by asking them to validate predicted batches by the algorithm at regular intervals using the Prodigy annotation tool.

- **London School of Economics** — London, UK
  Analytic Software Developer — *Sep 2018 - Present*
    - **Quanteda GUI**: quanteda is a popular R package (256K total downloads; 16K downloads/month) for quantitative text analysis. As a member of the Quanteda Initiative, I work on a commercial, scalable (up to 1,000 users) graphical user interface (GUI) application using the interactive R-Shiny framework.
    - **Team Management**: I manage contracted R and JavaScript programmers (up to 3-5 at a time) building the infrastructure of the GUI via weekly video conferences and daily GitHub issue/milestone management.

INTERACTIVE APPS

- **Adavis**: Visualises political polarisation in the US Congress over the last 70 years based on voting patterns consisting of 36K roll-call votes. [App] [Code]
- **Gender Bias**: Breaks down the gender bias in a leading UK higher education institution reading list comprised of 13K publications finding a 80/20 divide favouring male authors. [App] [Code]

EDUCATION

- **London School of Economics** — London, UK
  Ph.D. in International Relations — *Sep. 2014 – Sep. 2018*

- **Uppsala University** — Uppsala, Sweden
  Master of Social Science in Peace and Conflict Studies — *Aug. 2010 – June. 2012*

SKILLS

- **Programming**: R, Python, SQL (Postgres) — **Statistics**: Stata, SPSS
- **Languages**: English, Turkish — **Front-end**: HTML, CSS, LaTeX
- **Presentation**: RMarkdown, React.js — **Interactive**: R-Shiny