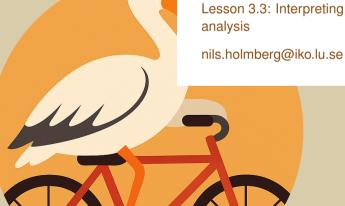


Module 3: Analyzing text content with natural language processing

Lesson 3.3: Interpreting the results of NLP analysis



Quantitative content analysis

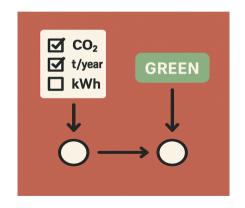
- · Systematically assess text features
- Text-level differs from word-level
- · Human coders lack scalability
- Al coding trades nuance
- · Quant results support qualitative





Operationalizing sustainability

- Metrics separate authentic messaging
- Authentic messaging cites specifics
- · Greenwashing uses vague claims
- NER maps entity relationships
- · POS patterns reveal intent





Comparison across organizations

- · Compare Preem and Vattenfall
- Fossil firms stress mitigation
- NLP detects tone shifts
- Scrutiny drives defensive messaging
- · Quantifies sustainability alignment





Summarizing results of text analysis

- Summaries simplify token tables
- Aggregate category and sentiment
- Compare dependent independent variables
- · Highlight trends by organization
- · Keep findings actionable





Select, filter, aggregate

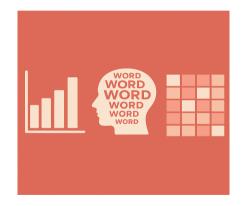
- · Select key token columns
- Filter noise and rare tokens
- Aggregate counts and sentiment
- Enable precise sustainability comparisons
- · Transform raw data insights





Visualizing results of text analysis

- · Visuals clarify NLP results
- Use bar cloud heatmaps
- · Prefer simple bar visuals
- · Matplotlib streamlines visualization
- Highlight interfirm term trends





Stacked bar plots

- Simple bars show single metrics
- Stacked bars compare organizations
- · Segments encode variable types
- · Reveal adjective differences
- · Support multivariate comparisons



