LUND UNIVERSITY

Module 4: Analyzing image content with computer vision

Lesson 4.3: Interpreting the results of CV analysis

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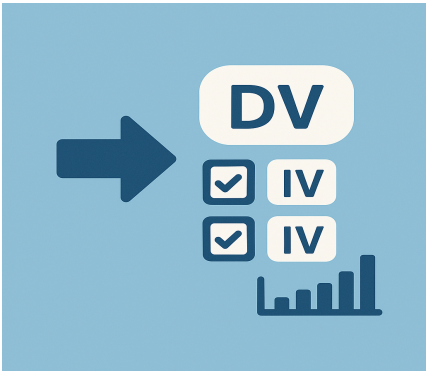
Interpreting results of CV analysis

- Answer starting questions
- Treat evidence as visuals
- Borrow NLP analogies carefully
- Link outputs to theory
- Report uncertainty and alternatives

Operationalizations using image features

- Translate concepts into features
- Define clear dependent measure
- Code predictors consistently
- State hypotheses and tests
- Predefine constructs and indicators

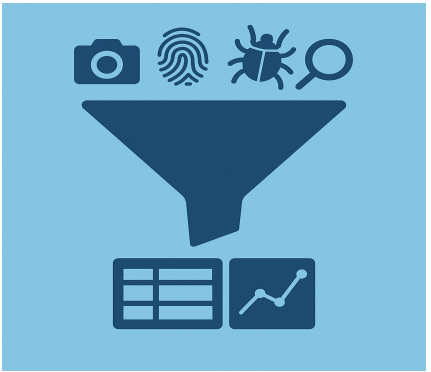


Comparisons across organizations

- Start from theoretical expectations
- High-impact stress mitigation cues
- Low-impact feature community scenes
- Use normalized comparison rates
- Contextualize patterns over time

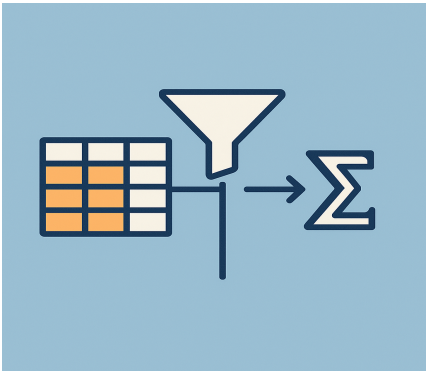
Summarizing results of image analysis

- Tidy labels for readability
- Summarize frequencies and counts
- Model associations with effects
- Report effect uncertainty
- Declare exploratory versus confirmatory



Select, filter, aggregate

- Select variables reflecting concepts
- Filter nulls and low-confidence
- Aggregate with simple summaries
- Build normalized summary tables
- Standardize routines for transparency



Visualizing results of image analysis

- Use numeric prevalence graphics
- Show overlays revealing detections
- Include diagnostic performance views
- Separate data versus method visuals
- Normalize trends and uncertainty

Grouped bar plots

- Choose grouped comparisons
- Encode organizations as groups
- Normalize bars to proportions
- Order bars and intervals
- Highlight shared versus distinctive