Codebook-Containing Deductive Codes from the Interview Questions

Research Questions from Interview Guide
• RQ1: How are data annotation requirements defined? • RQ2: What are the challenges in ensuring high-quality data annotation requirements? • RQ3: What are the practitioners' recommendations to improve data annotation requirements? • RQ4: What is the relationship between data annotation requirements, the annotation process, annotated data quality, and AI-enabled perception system performance?
Deductive Codes
Definition and Specification of Requirements
• Definition and Specification of Requirements: Requirement Gathering • Definition and Specification of Requirements: Specific Requirements • Definition and Specification of Requirements: Evolving Requirements • Definition and Specification of Requirements: Requirement Formalization • Definition and Specification of Requirements: Edge case inclusion • Definition and Specification of Requirements: Documentation methods • Definition and Specification of Requirements: Breaking down high-level requirements into tasks
Quality Assurance for Data Annotation Requirements
• Quality Assurance for Data Annotation Requirements: Maintaining consistency across annotators/teams • Quality Assurance for Data Annotation Requirements: Ensuring annotation quality • Quality Assurance for Data Annotation Requirements: Scaling annotation processes
Compliance and Ethical Considerations
• Compliance and Ethical Considerations: Safety-related requirements for AI systems • Compliance and Ethical Considerations: Ensuring compliance with ethical standards • Compliance and Ethical Considerations: Privacy and data compliance
Relationship between Requirements and Annotated Data and AI-enabled Perception Systems
• Relationship Between Requirements and Annotated Data: Impact of annotation requirements on annotation quality • Relationship Between Requirements and Annotated Data: Impact of annotation requirements on perception system quality • Relationship Between Requirements and Annotated Data: Tool impact on annotation requirements
Interdisciplinary Collaboration for Annotation Requirements
Challenges in Annotation Requirements
• Challenges in Annotation Requirements: Defining clear and unambiguous requirements • Challenges in Annotation Requirements: Handling evolving requirements • Challenges in Annotation Requirements: Defining requirements for complex/edge cases • Challenges in Annotation Requirements: Complexity in annotating rare scenarios • Challenges in Annotation Requirements: Limitations in existing annotation tools. • Challenges in Annotation Requirements: Trade-offs between speed and accuracy • Challenges in Annotation Requirements: Inconsistencies in requirements guidelines
Challenges Mitigation in Annotation Requirements

Codebook-Containing Deductive Codes from the Interview Questions

- Challenges Mitigation in Annotation Requirements: Ensuring fairness and minimizing bias
- Challenges Mitigation in Annotation Requirements: Addressing bias in sensitive data and demographic information
- Challenges Mitigation in Annotation Requirements: Optimizing the requirements guidelines
- Challenges Mitigation in Annotation Requirements: Developing Robust Guidelines
- Challenges Mitigation in Annotation Requirements: Domain-Specific Guidelines
- Challenges Mitigation in Annotation Requirements: Handling Edge Cases
- Challenges Mitigation in Annotation Requirements: Use of Automation Tools
- Challenges Mitigation in Annotation Requirements: Iterative Feedback Loops
- Challenges Mitigation in Annotation Requirements: Quality Assurance Processes for requirements finalization
- Challenges Mitigation in Annotation Requirements: Insufficient annotation guidelines from client
- Challenges Mitigation in Annotation Requirements: Insufficient context provided

The End ☺