

✓ Annotation Strategy Checklist

Project Setup

- ☐ Define annotation objectives (e.g., classification, NER, bounding box)
 - ☐ Select and configure annotation tool
 - ☐ Develop initial ontology / label schema
 - ☐ Create comprehensive annotation guidelines with examples
 - ☐ Prepare golden dataset for QA and training
 - ☐ Set up versioning system for datasets
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Train Annotators

- ☐ Onboard annotators with kickoff session + tool walkthrough
 - ☐ Distribute documentation on edge cases and escalation rules
 - ☐ Assign hands-on practice tasks using golden dataset
 - ☐ Provide automated and manual feedback on practice batches
 - ☐ Pair new annotators with experienced mentors
 - ☐ Confirm annotators meet quality threshold before production
 - ☐ Encourage questions and record new edge cases for future training
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Quality Control & Error Detection

- ☐ Measure inter-annotator agreement (e.g., Cohen's Kappa)
 - ☐ Perform statistical anomaly checks (timing, label ratios, IoU/spans)
 - ☐ Monitor annotator performance over time
 - ☐ Run automated validation scripts (e.g., missing tags, overlapping boxes)
 - ☐ Check cross-annotation consistency for similar inputs
 - ☐ Set up tiered review workflows for low-confidence annotations
 - ☐ Use active learning to prioritize high-uncertainty samples
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Disagreement Resolution

- ☐ Analyze root causes of disagreements (e.g., guideline ambiguity)
 - ☐ Resolve via additional voting, expert review, or updated labels
 - ☐ Escalate recurring issues to stakeholders and refine ontology
 - ☐ Update living documentation with resolved cases
 - ☐ Share disagreements as examples in training reviews
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Data Preparation for ML

- ☐ Standardize annotation format (e.g., IOB for text, COCO for images)
 - ☐ Apply preprocessing (tokenization, resizing, normalization)
 - ☐ Create edge-case test set for robustness evaluation
 - ☐ Use stratified sampling for train/val/test split
 - ☐ Address class imbalance via oversampling, undersampling, or SMOTE
 - ☐ Apply data augmentation (e.g., back-translation, image flips)
 - ☐ Validate schema and clean metadata
 - ☐ Document dataset characteristics and preprocessing steps
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Support ML Team

- ☐ Track dataset versions and link to model runs
- ☐ Monitor bias and fairness across demographic groups
- ☐ Conduct regular syncs to update priorities and share feedback
- ☐ Identify gaps using model predictions (active learning loop)
- ☐ Maintain centralized docs and onboarding guides
- ☐ Share helper scripts or dashboards for model and data inspection