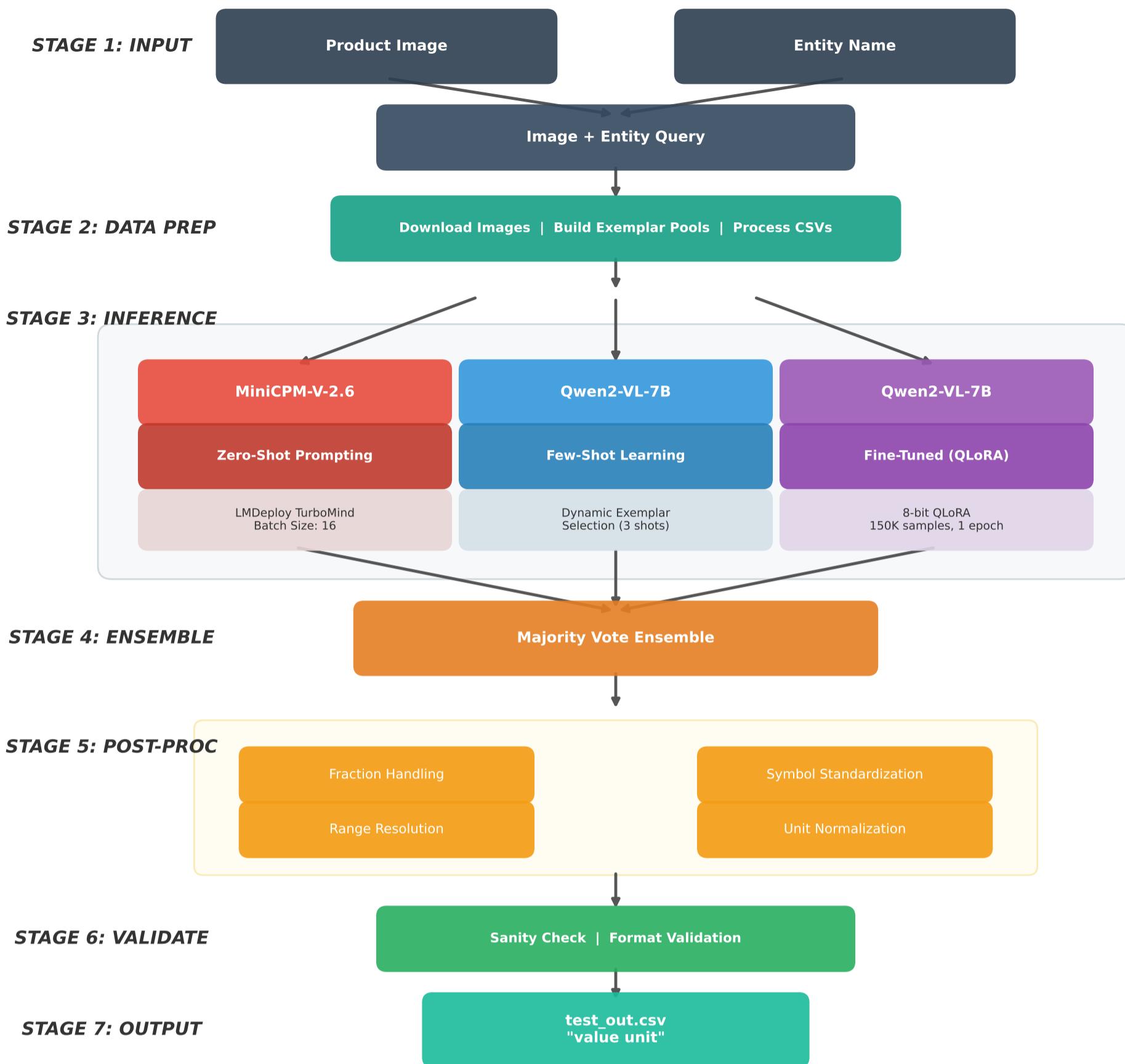


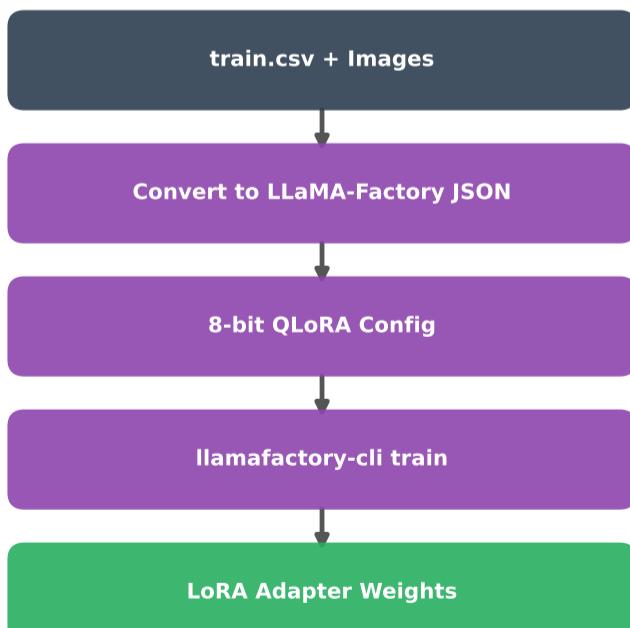
# Image Entity Extraction - Architecture Workflow

Amazon ML Challenge 2024 | Ensemble VLM Pipeline

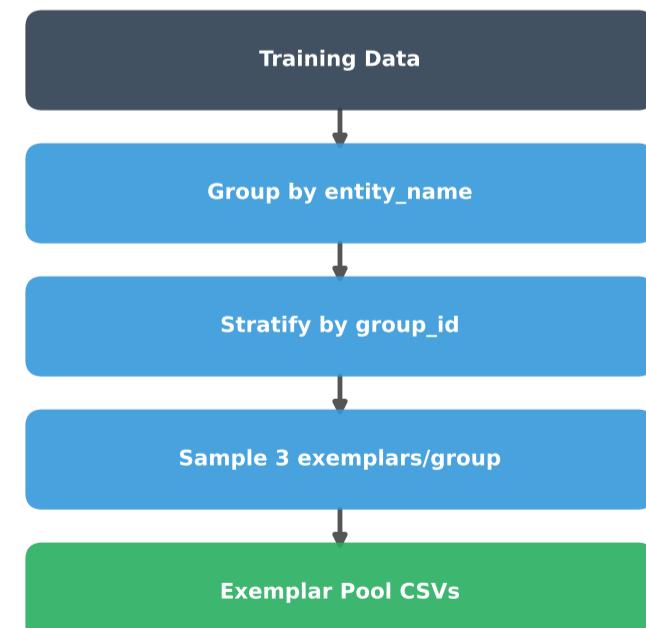


## Component Details

### Training Pipeline (QLoRA)



### Few-Shot Exemplar Pipeline



## Evaluation Metric

$$F1 = 2 * \text{Precision} * \text{Recall} / (\text{Precision} + \text{Recall})$$

$$\text{Precision} = \text{TP} / (\text{TP} + \text{FP}) \quad | \quad \text{Recall} = \text{TP} / (\text{TP} + \text{FN})$$
 Exact string match: prediction must equal ground truth

## Supported Entities

width | depth | height | item\_weight | max\_weight\_recommendation | voltage | wattage | item\_volume