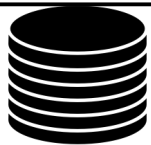
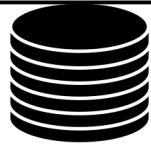


Information Gathering

1



Dataset of ML projects



Research papers ML
libraries and frameworks



Collect all import
statements



Select only ML libraries
and frameworks

Knowledge Base Construction

2



Collect ML libraries and
frameworks



Review usage examples
or code snippets.



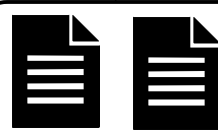
Compare APIs with
known training or
inference methods



Analyze APIs
documentation (e.g.,
training or inference)



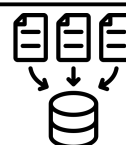
Analyze method names
(e.g., "train", "predict")



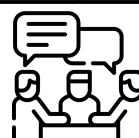
Extract Training and
Inference API
(Knowledge Base)

Knowledge Base Refinement

3



Update the
Knowledge Base



Discussion with experts
to validate the APIs