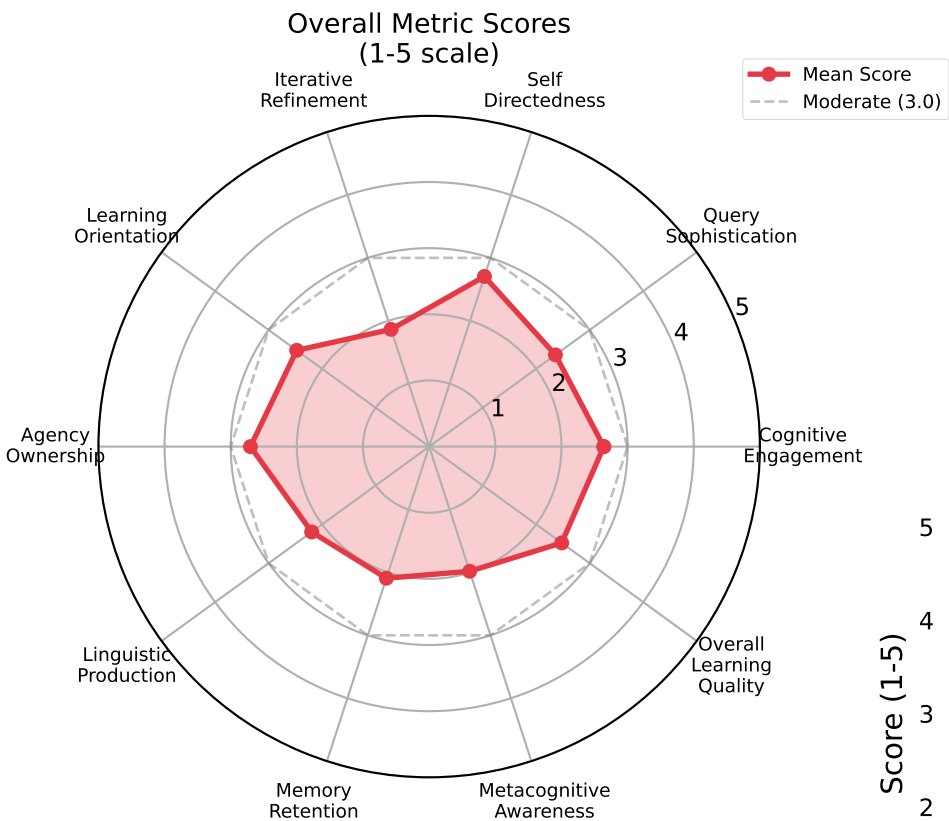


Esperanto Learning with ChatGPT: Summary Dashboard

Behavioral Economics Analysis (N=397 conversations, 375 participants)



KEY FINDINGS (Behavioral Economics Perspective):

COGNITIVE DEBT INDICATORS (MIT 2025):

- Iterative Refinement: 1.86/5 - LOW (learners accept first answers)
- Memory Retention: 2.09/5 - LOW (reduced cognitive encoding)
- Metacognitive Awareness: 1.98/5 - LOW (passive learning pattern)

LEARNING PATTERNS:

- Learning Orientation: 2.48/5 (Declarative bias - facts over processes)
- Esperanto Usage: 38.1% average (reliance on English translation)
- Query Length: 6.4 words (short, minimal context queries)

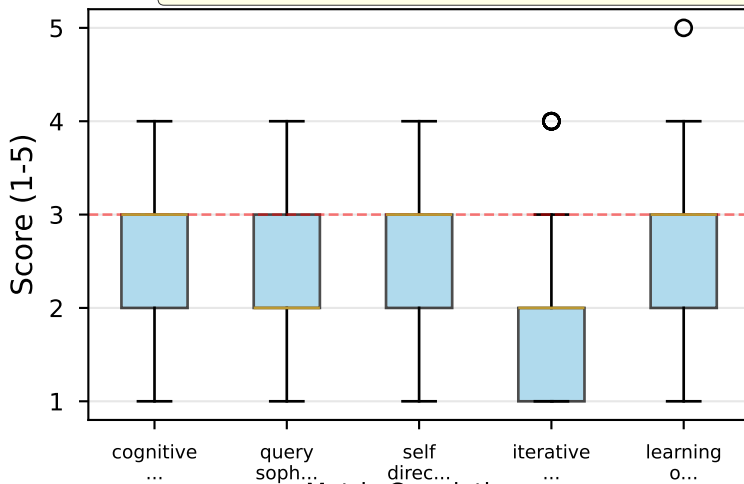
POSITIVE INDICATORS:

- Self-Directedness: 2.70/5 (Balanced - not over-dependent on AI)
- Cognitive Engagement: 2.64/5 (Moderate surface-level engagement)

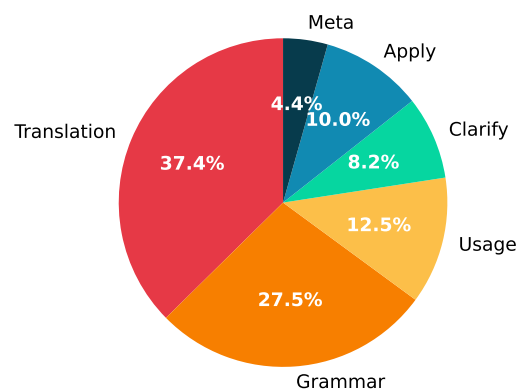
IMPLICATIONS:

Evidence of cognitive offloading patterns consistent with MIT research. Suggests need for intervention to promote deeper, more active learning.

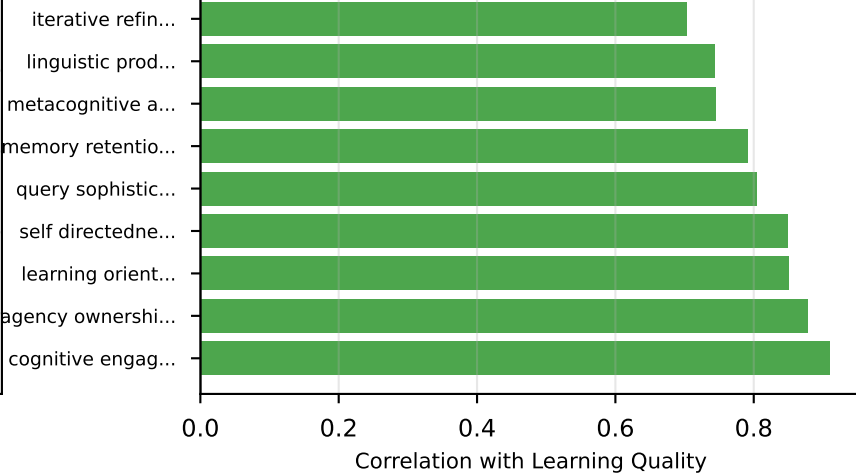
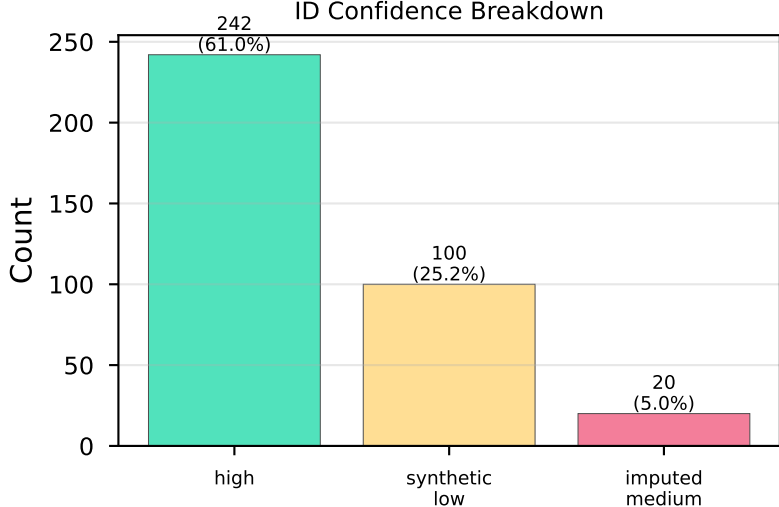
Top 5 Metrics Distribution



Question Type Distribution



ID Confidence Breakdown



DATASET STATISTICS:

Total Conversations: 397
Unique Participants: 375
Evaluation Completeness: 98%

Session Duration:
Mean: 35.3 min
Median: 12.3 min

Messages per Conversation:
Mean: 11.4
Median: 10

Multiple Conversations: 15 participants

Main Sessions: 369
Non-Main: 28