👤 Domain situation

❗ Threat Wrong problem

☑ Validate Observe and interview target users

💡 Data/task abstraction

❗ Threat Wrong task/data abstraction

👁 Visual encoding/interaction idiom

❗ Threat Ineffective encoding/interaction idiom

☑ Validate Justify encoding/interaction design

📈 Algorithm

❗ Threat Slow algorithm

☑ Validate Analyze computational complexity

Implement system

☑ Validate Measure system time/memory

☑ Validate Qualitative/quantitative result image analysis

☑ Validate Lab study, measure human time/errors for task

☑ Validate Test on target users, collect anecdotal evidence of utility

☑ Validate Field study, document human usage of deployed system

☑ Validate Observe adoption rates