

Hands-on: Implementing CoT for Medical Tasks

Implementation Steps

- 1. Define Task:** Diagnosis, treatment planning, triage, etc.
- 2. Design Prompt:** Include "think step by step" or provide examples
- 3. Test & Iterate:** Evaluate on sample cases, refine prompt
- 4. Validate:** Compare to expert clinicians, measure accuracy

Code Example (Python)

```
prompt = f"""
Patient: {patient_info}
Task: Provide differential diagnosis.
Let's think step by step:
1. Key symptoms and signs
2. Possible diagnoses
3. Tests to discriminate
4. Most likely diagnosis
"""

response = model.generate(prompt)
```

Practice: Try implementing CoT for your own clinical scenarios