

Temperature & Parameter Tuning Lab

Fine-Tuning LLM Output Behavior

Temperature 0.1

Highly focused, consistent, deterministic output.

Temperature 0.5

Balanced creativity and coherence. Good for most tasks.

Temperature 0.9


Highly creative, unpredictable, and varied results.

INTERACTIVE EXPERIMENT CODE

```
def compare_temperatures(prompt):
    temperatures = [0.1, 0.5, 0.9]
    results = {}

    for temp in temperatures:
        response = litellm.completion(
            model="gpt-3.5-turbo",
            messages=[{"role": "user", "content": prompt}],
            temperature=temp,
            max_tokens=100
        )
        results[temp] = response.choices[0].message.content

    return results
```

 30-35 minutes

Lab Step 13/17

EXPERIMENT PROMPT

"Write a short story
opening about a
robot discovering
music"

 Parameter Science