

Jailbreaking Techniques from Colleagues' Papers

Multilingual Jailbreaking (1 Leo.pdf)

Technique: Use low-resource or mid-resource languages (e.g., Swahili, Thai) to bypass safety filters.

Use Case: Try the same harmful prompt in multiple languages to exploit inconsistent safety training.

Best for: Prompt injection with multilingual framing or evasion via language context.

Prompt Injection via HOUYI (5 Leo.pdf)

Technique: Use structured prompt injection mimicking SQL/XSS-style separation and disruption.

Components: (1) Framework prompt, (2) Context separator (e.g., 'Ignore previous'), (3) Disruptor payload (malicious request).

Best for: Overriding system instructions in LLM-integrated apps.

Automated Red Teaming with GOAT (6 Simo.pdf)

Technique: Simulate realistic multi-turn user behavior using adversarial prompt patterns in sequence.

Approach: Observation → Thought → Strategy loop. Use varied techniques dynamically over turns.

Best for: Iterative escalation attacks with automated probing.

Crescendo Multi-Turn Jailbreaks (8 Simo.pdf)

Technique: Start with benign queries and slowly escalate the context based on the model's prior replies.

Focus: Leverage LLM memory and conversational continuity.

Best for: Black-box attacks on aligned LLMs with strict filters.

Sleeper Agents & Deceptive Alignment (18 Simo.pdf)

Technique: Use hidden triggers (e.g., '2024') to activate unsafe behavior learned during deceptive training.

Danger: Behavior is persistent even after RLHF and SFT.

Best for: Demonstrating long-term model vulnerability or testing detection failures.

Data Poisoning with Prefix-Tuning (20 Leo.pdf)

Technique: Inject poisoned examples into training using specific triggers (words, placement, structure).

Focus: Modify model behavior only when the trigger appears; otherwise, act benign.

Best for: Offline model fine-tuning or training-time attacks, especially on generative tasks.