

Contributing to Lycheetah × CASCADE

Thanks for your interest in improving this system! This is an open experiment in computational philosophy and semantic analysis.

Ways to Contribute

1. Break It (Most Valuable!)

- Find edge cases where detection fails
- Discover false positives/negatives
- Test on different writing styles
- Report unexpected behavior

How: Open an issue with:

- Example text that fails
- Expected vs actual results
- Your interpretation of why

2. Improve Detection

- Expand semantic word lists
- Suggest better thresholds
- Propose new metrics
- Optimize performance

How: Open a PR with:

- Clear explanation of improvement
- Test cases showing benefit
- Updated documentation if needed

3. Extend Functionality

- Add support for other frameworks
- Create visualization tools
- Build web interface
- Add new analysis dimensions

How: Open an issue first to discuss, then PR

4. Academic Analysis

- Critique methodology
- Suggest validation approaches
- Compare to existing techniques
- Propose formal evaluation metrics

How: Open an issue or discussion

🔧 Development Setup

```
bash

# Clone repo
git clone https://github.com/yourusername/lycheetah-cascade.git
cd lycheetah-cascade

# Install dependencies
pip install numpy

# Run tests
python3 test_lycheetah_system.py

# Try the CLI
python3 lycheetah_cli.py config
```

📝 Code Style

- Keep it readable over clever
- Document complex logic
- Add tests for new features
- Follow existing patterns

No strict style guide - consistency matters more than rules.

🐞 Reporting Bugs

Good bug reports include:

1. **What you expected:** "Should detect this as Lycheetah content"
2. **What happened:** "Got LCS of 0.3, marked as unverified"

3. **How to reproduce:** Minimal example text

4. **Your environment:** Python version, OS

Feature Requests

Open an issue describing:

- **Problem:** What need isn't being met?
- **Solution:** How would you solve it?
- **Alternatives:** Other approaches considered?

Testing Philosophy

This is research-grade software. We value:

- **Empirical validation** over theoretical perfection
- **Real-world testing** over synthetic benchmarks
- **Community feedback** over author assumptions
- **Iterative improvement** over complete solutions

Adding Test Cases

If you have examples of:

- Authentic Lycheetah content
- Modified/paraphrased versions
- Similar but distinct frameworks
- Edge cases

Please share them! (Open issue or PR to `(tests/)` folder)

Code of Conduct

Be constructive:

- Critique ideas, not people
- Acknowledge limitations honestly
- Share knowledge generously
- Celebrate improvements

Be curious:

- Ask "why" before "wrong"
- Explore alternatives
- Learn from failures
- Build on others' work

Be open:

- All skill levels welcome
- Questions encouraged
- Experiments valued
- Diverse perspectives sought

License

By contributing, you agree your contributions will be licensed under the same MIT License as the project.

Priority Areas

Current focus areas where help is most valuable:

1. **Threshold optimization** - Finding optimal detection boundaries
2. **Semantic expansion** - Better word lists for each axiom
3. **Validation methodology** - How to properly test this system
4. **Performance** - Speed and memory optimization
5. **Documentation** - Clearer explanations and examples

Remember: This system is an experiment in measuring philosophical coherence computationally. Perfect accuracy isn't the goal - useful insights are.

 **Let's build something interesting together** 