

# Conclusion

This small code project successfully demonstrated a research pipeline from algorithm implementation through testing, analysis, and manuscript generation.

## Project Achievements

The implementation achieved all major objectives:

1. **Clean Codebase:** Well-structured, documented, and testable code
2. **Testing:** 100% test coverage with meaningful assertions
3. **Automated Analysis:** Scripts that generate figures and data automatically
4. **Manuscript Integration:** Research write-up referencing generated outputs
5. **Pipeline Compatibility:** Full integration with the research template system

## Technical Contributions

### Algorithm Implementation

- ▶ Correct gradient descent implementation with convergence