

Design Pitfalls

Over-engineering
simple tasks

Schema too rigid
for evolution

Validation
too strict

No versioning
strategy

Operational Pitfalls

Cost
blindness

No fallback when
validation fails

Single point
of failure

Inadequate error
logging

Data Pitfalls

Ignoring
edge cases

Insufficient testing
on real data

No monitoring
for drift

Missing confidence
scores

Common Pitfalls with Structured Outputs

Predictable failure modes and how to prevent them

Prevention Strategies

Test Extensively:

Use real messy data, not clean examples

Monitor Continuously:

Track validation failures, schema drift

Start Simple:

Add complexity only when needed

Design for Failure:

Graceful degradation, fallback mechanisms

Version Schemas:

Enable evolution without breaking changes

Document Edge Cases:

Known limitations and workarounds

Robust systems anticipate and prevent these pitfalls from day one