

AI Readiness and Benchmarking Checklist for Life Sciences

Transform your AI systems into reliable, high-performing tools that accelerate discovery and innovation in life sciences research. This comprehensive checklist ensures your benchmarking efforts deliver actionable insights that drive meaningful product improvements.

Set Objectives and Prepare Systems

- Define clear benchmarking goals and key performance metrics.
- Align with real user workflows and establish baseline performance.
- Assess current AI system architecture and document data flows.

Select the Right Datasets

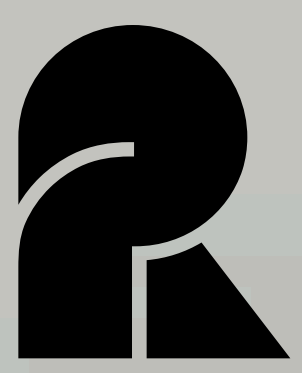
- Choose public or domain-specific benchmarks that reflect user needs.
- Develop internal datasets that mirror real-life scenarios.
- Ensure data quality, clear annotation criteria, and document limitations.

Align Cross-Functional Teams

- Assemble a team with ML engineers, domain experts, and commercial leads.
- Spell out roles, responsibilities, and create feedback mechanisms.
- Engage both internal and, if needed, external annotators.

Build and Validate Benchmarks

- Use clear annotation guidelines and pilot rounds to test clarity.
- Monitor annotator agreement and maintain quality control checks.
- Adjust and improve based on feedback and data complexity.



Analyze and Improve Performance

- Run benchmarks and compare results against gold standards.
- Categorize and investigate errors with domain experts.
- Use findings to prioritize product improvements.

Iterate and Communicate

- Regularly update benchmarks to match evolving needs.
- Track gains in accuracy, user satisfaction, and performance.
- Share results and success stories to demonstrate impact to stakeholders.

Track Your Success

- Reduced error rates
- Faster insights for research teams
- Increased user satisfaction

Sounds like a lot? Try Reliant AI instead.

If this checklist feels overwhelming, let Reliant AI handle the heavy lifting.

We build solutions for literature review, competitive landscaping, and more key workflows in biopharma.

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About Reliant AI

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Contact our team to learn how Reliant AI can transform your life sciences research.

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