



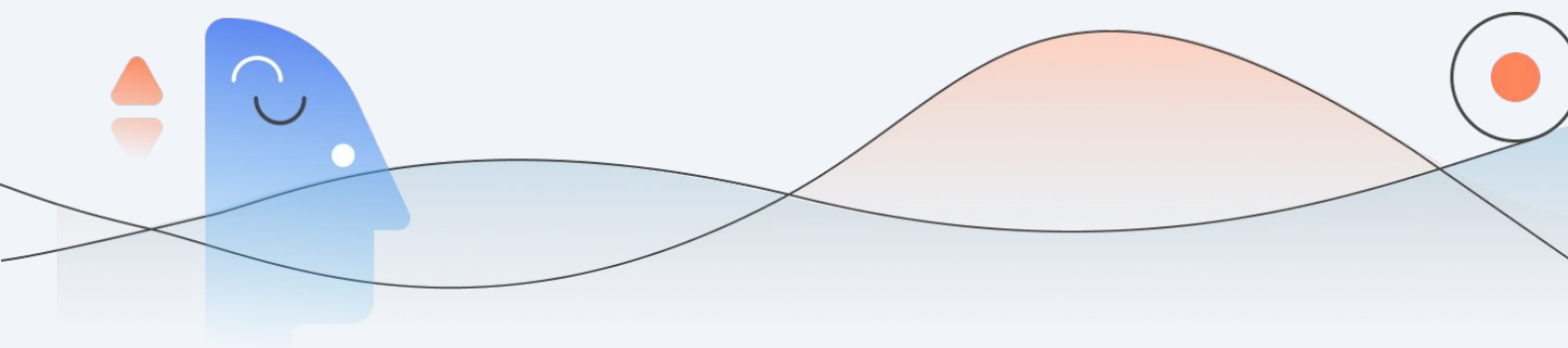
Your AI Testing Checklist



Introduction

Building an AI product is one thing. Ensuring it works reliably, ethically, and securely in the real world is the real challenge. Traditional QA methods aren't enough to catch the unique risks of AI, from unpredictable outputs to data bias.

This checklist is your practical guide. We've broken down the most critical AI testing tasks by role to help you get a clear roadmap for success and build a product you can be proud of.



Need help turning this checklist into action?

Get expert guidance on AI testing implementation.

[Let's talk!](#)

AI Product Testing Checklist



For the Head of QA / QA Team Lead

Model & Data Validation

- ☐ Audit data for missing values, duplicates, and inconsistencies.
- ☐ Validate the quality of real-time input data flowing into the model.
- ☐ Check data for toxicity, bias, and sensitive information.

AI-Specific Frameworks

- ☐ Implement tests to monitor for model drift in production environments.
- ☐ Develop adversarial tests to check the model's resilience against malicious attacks.
- ☐ Create scenarios to test the model's behavior on edge cases.



AI Product Testing Checklist



For the Head of QA / QA Team Lead

Bias & Fairness

- ☐ Audit the dataset for demographic and social biases.
- ☐ Test model outputs for discrimination based on gender, race, or age.

Regression & Automation

- ☐ Set up automated tests that run after every model retraining.
- ☐ Create metrics to track regression in model accuracy.

Explainability

- ☐ Test model transparency to ensure it can explain its decision-making process.

AI Product Testing Checklist



For the Dev Team

Error & Failure Patterns

- ☐ Analyze test logs to understand why a model gave an unexpected response.
- ☐ Determine if an error is systemic or related to specific user inputs.

Integration & Interoperability

- ☐ Verify API integrations with other services.
- ☐ Test the interaction of AI functionality with cloud services.

Performance Under Load

- ☐ Perform stress tests to check the model's speed and reliability under high load.
- ☐ Measure the model's response time for different types of queries.

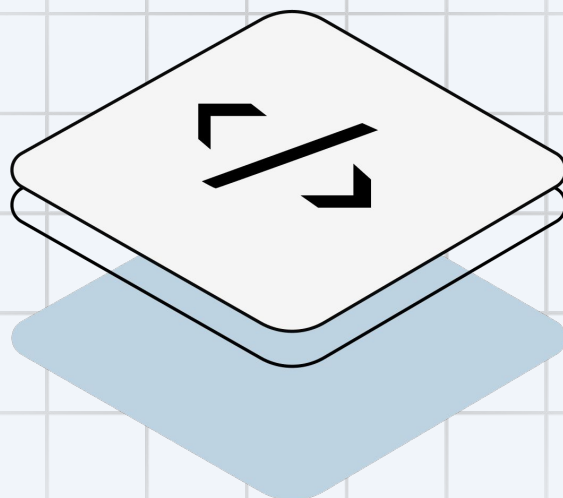
AI Product Testing Checklist



For the Dev Team

CI/CD Pipeline

- ☐ Integrate data quality tests into the CI/CD pipeline.
- ☐ Set up automated tests to run on the model before every deployment.



AI Product Testing Checklist



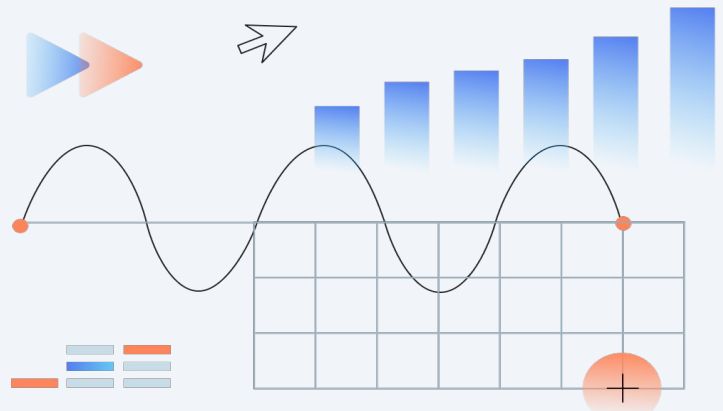
For the Product Manager

User Experience (UX) Testing

- ☐ Verify how AI responses or recommendations are displayed in the user interface.
- ☐ Validate that the AI helps the user achieve their goal rather than creating obstacles.

Hallucination & Misleading Outputs

- ☐ Test if the model provides factual answers to common questions.
- ☐ Check that the model does not generate non-existent facts, references, or names.



AI Product Testing Checklist



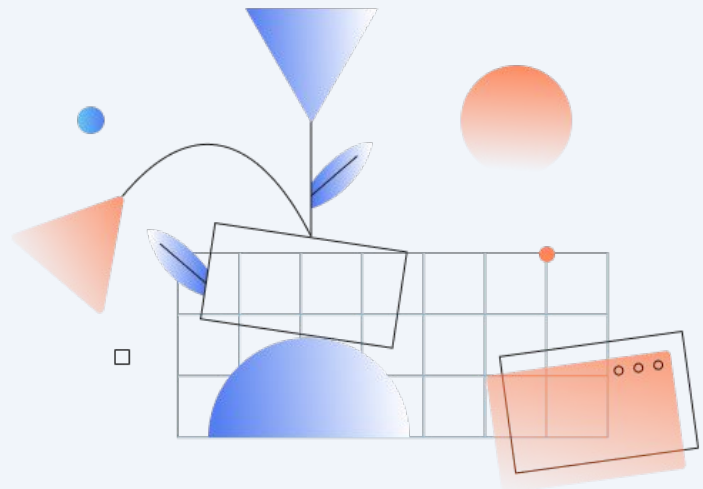
For the Product Manager

User Trust

- ☐ Conduct testing that aligns with your company's ethical principles.
- ☐ Evaluate the user's emotional response to the results provided by the AI.

Feedback Loop

- ☐ Establish a mechanism to collect user feedback specifically related to the AI's performance.



AI Product Testing Checklist



For the CEO / Business Leader

Compliance & Security

- ☐ Verify the product's compliance with regulations like GDPR or HIPAA.
- ☐ Assess the risks of confidential data leakage through the AI's actions.

Brand & Reputation

- ☐ Conduct audits for potentially offensive or inappropriate content the model might generate.

Measurable ROI

- ☐ Track how AI quality impacts key business metrics (e.g., engagement, conversions, customer satisfaction).

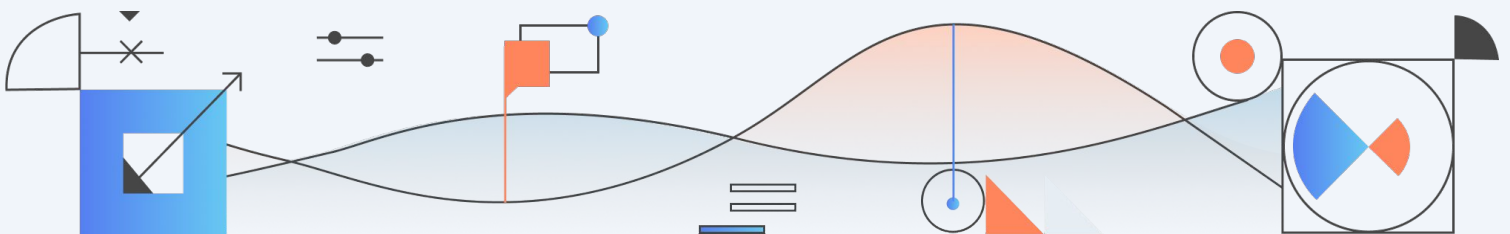
AI Product Testing Checklist



For the CEO / Business Leader

Scalability

- ☐ Verify that the current testing infrastructure can support the product's growth without compromising quality.



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