

AI-driven testing expands coverage by automating test generation, prioritizing scenarios, and continuously exploring new edge cases. Machine learning models can infer application behavior from code, logs, and usage telemetry to synthesize inputs and generate test cases. This increases mutation and path coverage, reduces human bias in test case selection, and identifies flaky or brittle tests. AI can also maintain and adapt tests when the UI or APIs evolve, minimizing manual upkeep. Combined with human oversight, AI accelerates regression detection, improves risk-based prioritization, and supports continuous testing in CI/CD pipelines.