

Navigating Complexities in Social Media API Integration Testing:

Strategies and Solutions

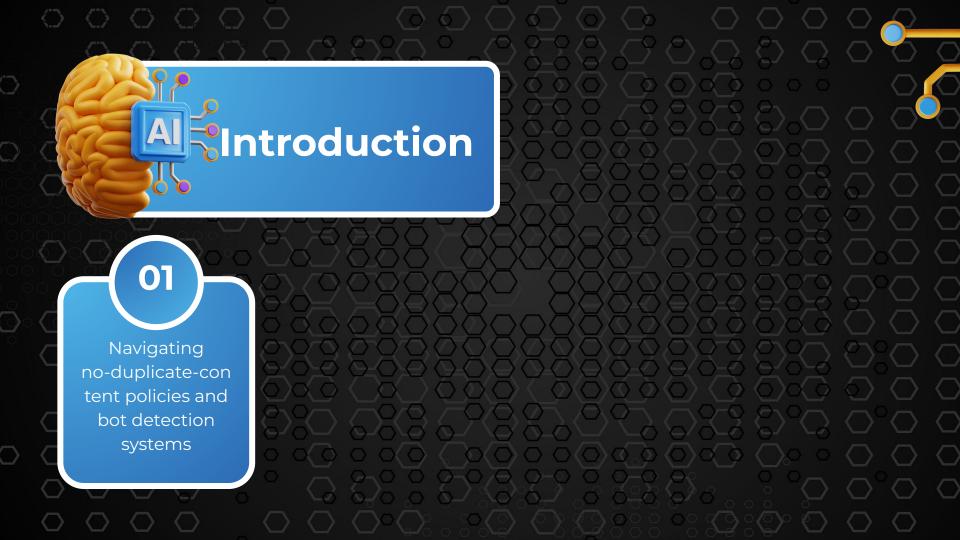
By Marina Rukavitsyna 9 October, 2024





- Software engineer at HelloFresh
- 5 years backend engineer
- 15 years in tech
- Not QA, but have QA tasks
- Led Social Media API integration







tent policies and bot detection systems

Media API versioning



Navigating no-duplicate-con tent policies and bot detection systems

Effectively managing Social Media API versioning

02

Evaluating various testing strategies, including their pros and cons

03



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Effectively managing Social Media API versioning

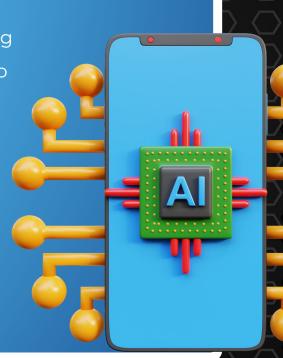
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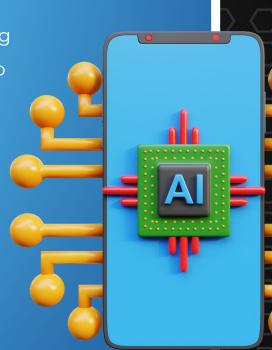
03

Introducing a hybrid testing method that leverages AI for unique content generation









What is Social Media API Integration

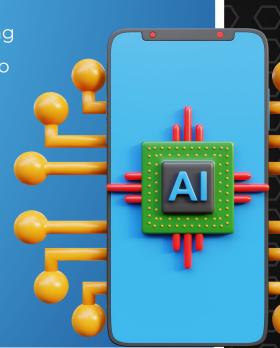
Social Media API integration - process of connecting and interacting with social media platforms' APIs to enable applications to perform various operations, such as:

Posting content



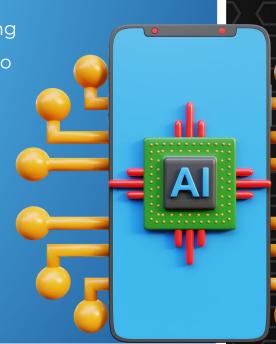
What is Social Media API Integration

- Posting content
- Retrieving user data



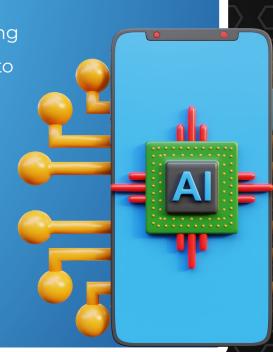
What is Social Media API integration

- Posting content
- Retrieving user data
- Managing accounts



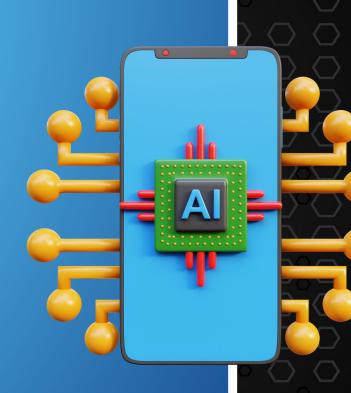
What is Social Media API Integration

- Posting content
- Retrieving user data
- Managing accounts
- Analyzing social interactions



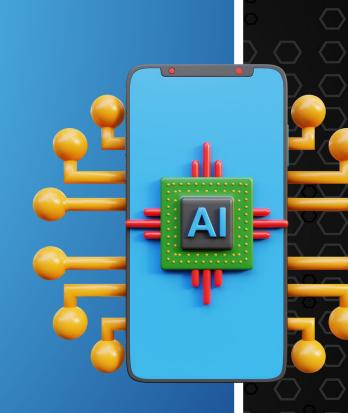
Why to Test Social Media API Integration

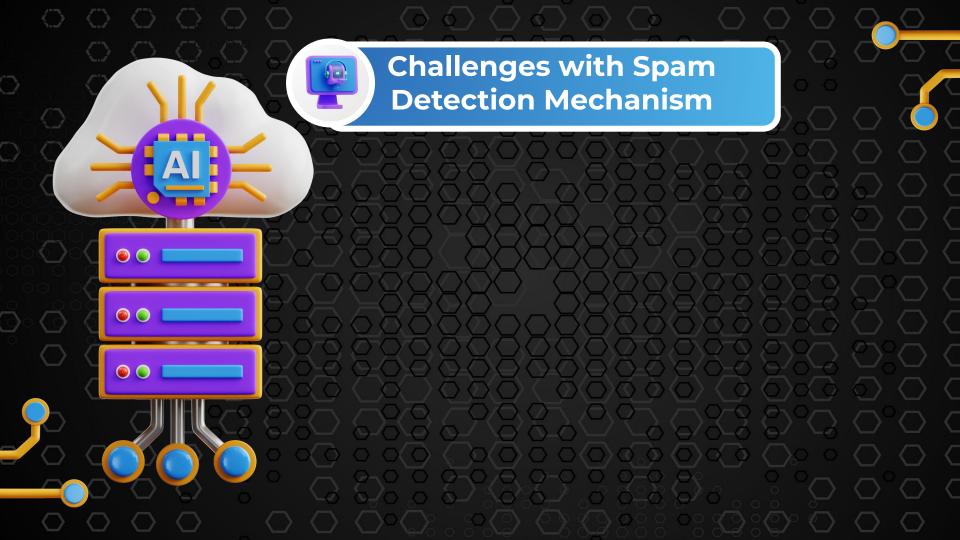
- Ensure functional accuracy
- Enhance user experience
- Validate data integrity
- Reduce development costs
- Ensure compatibility
- Boosts confidence

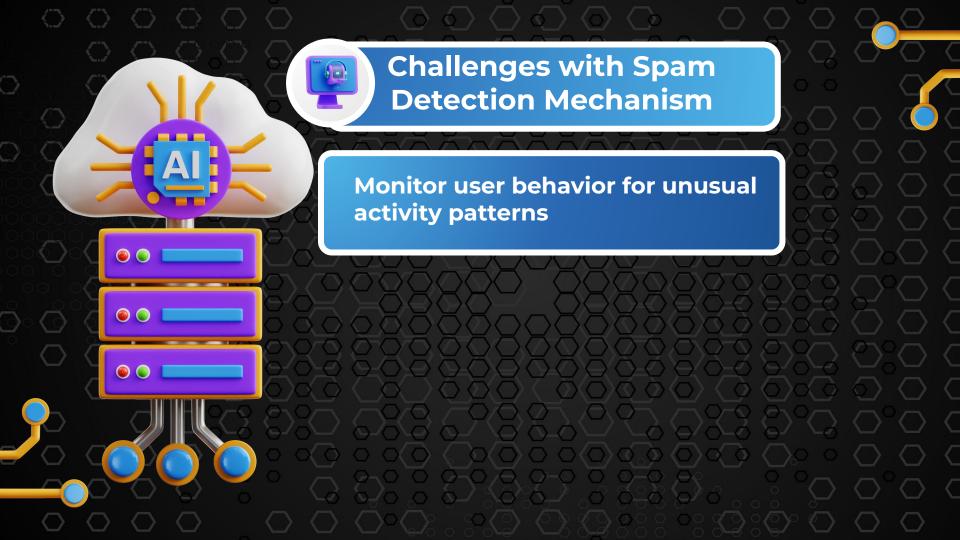


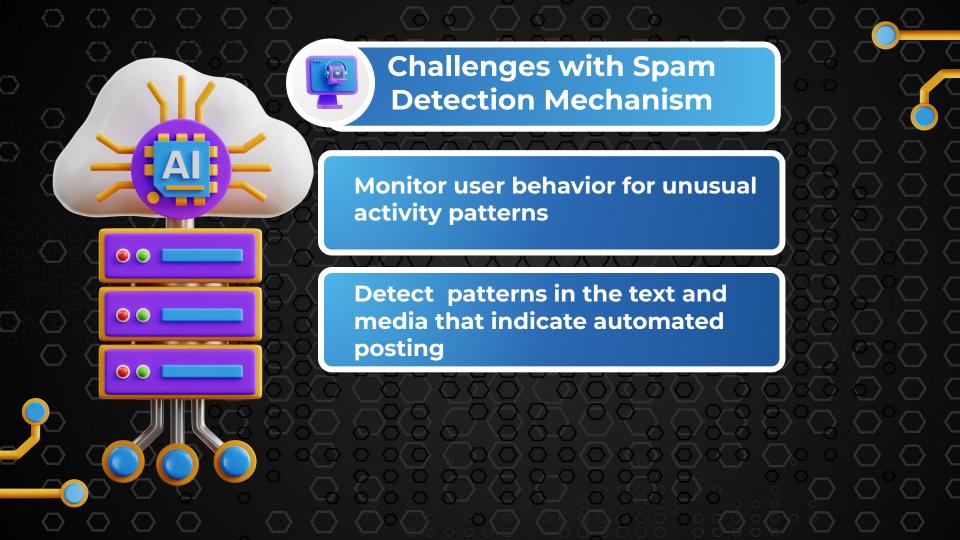


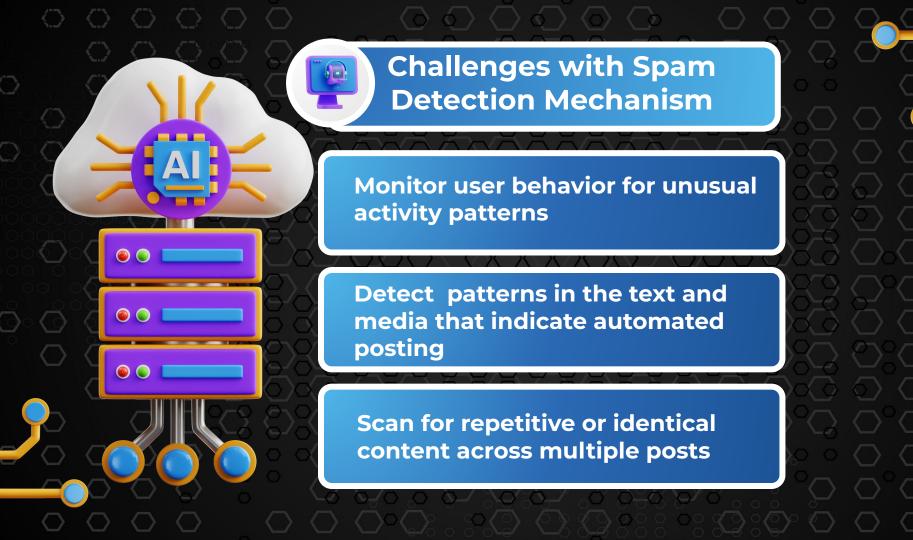
- Unit Testing
- Integration Testing
- Mocking
- End-to-End (E2E) Testing
- Manual Testing

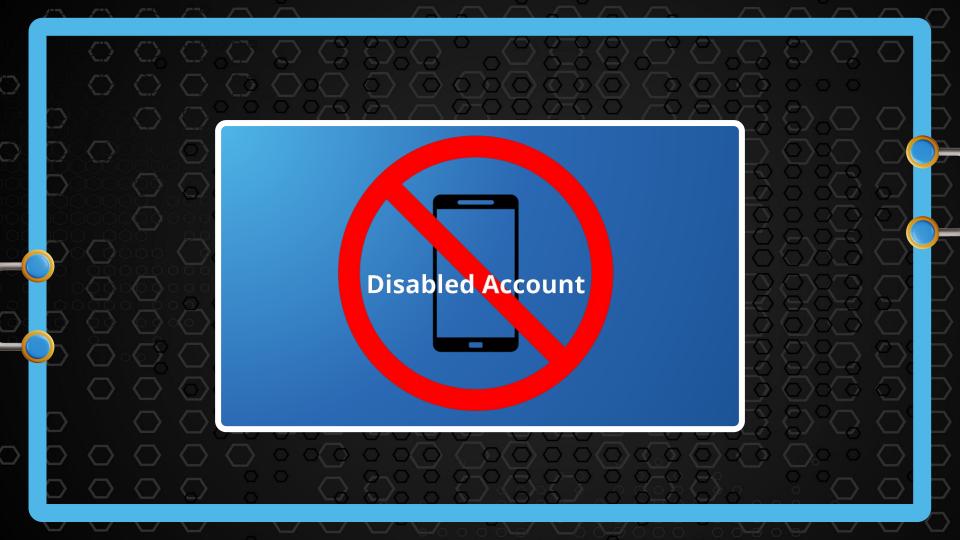






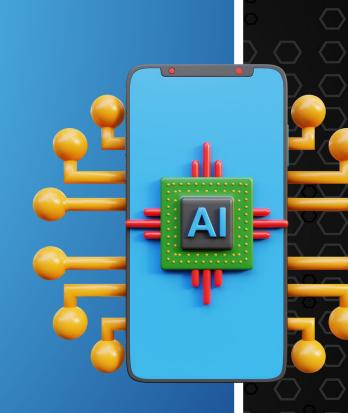








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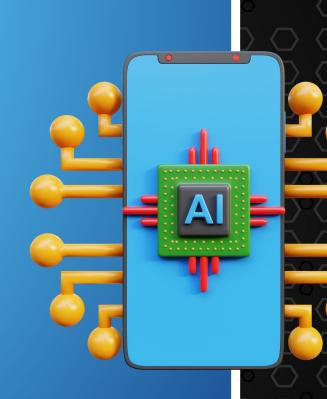


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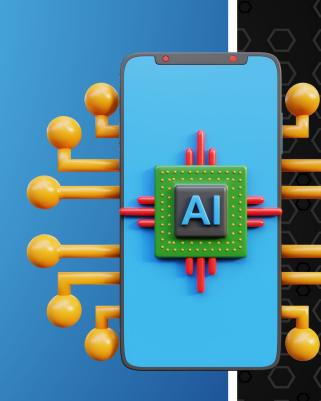


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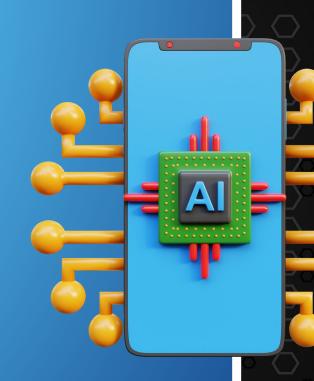


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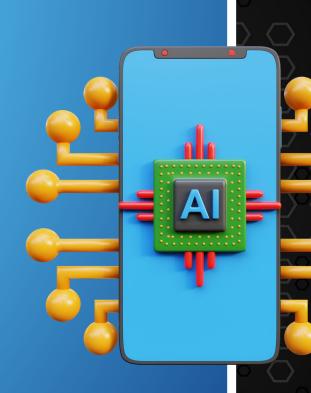
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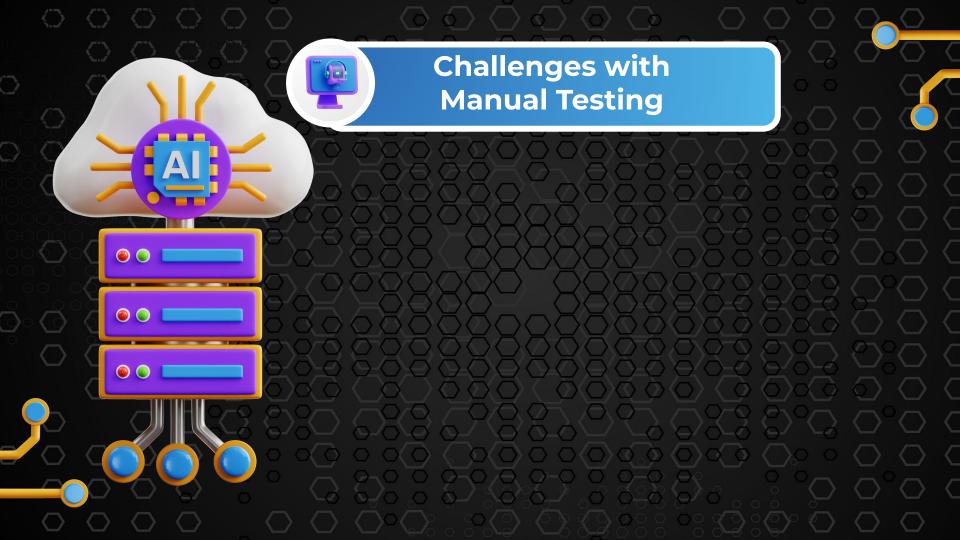


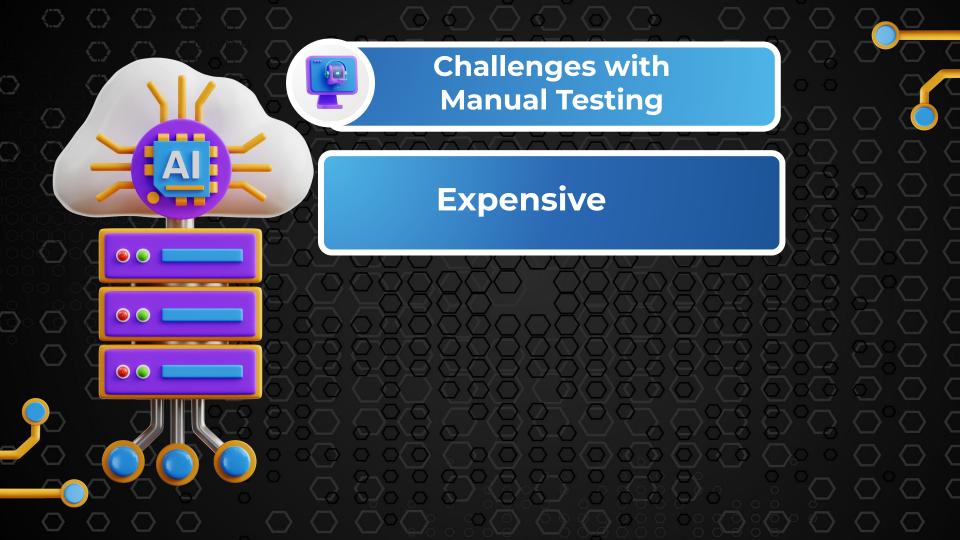


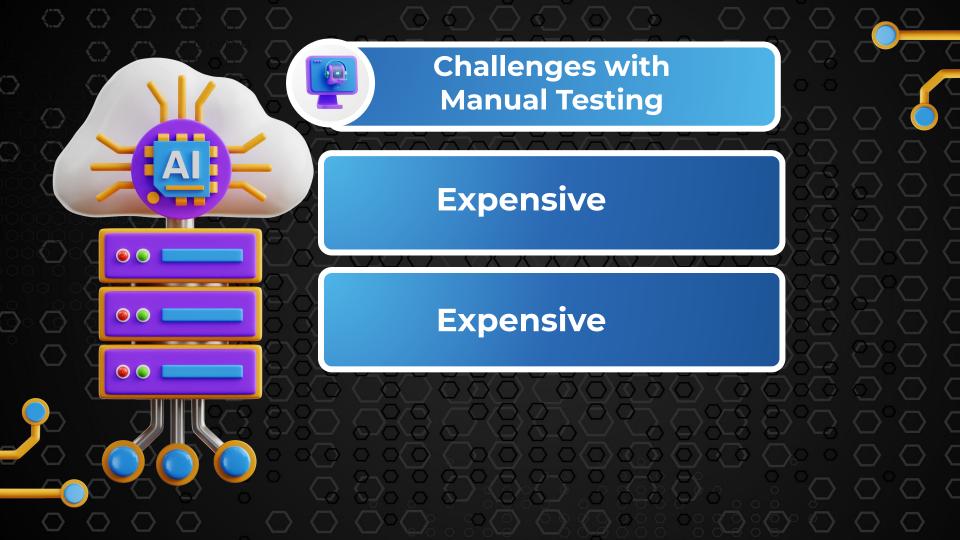
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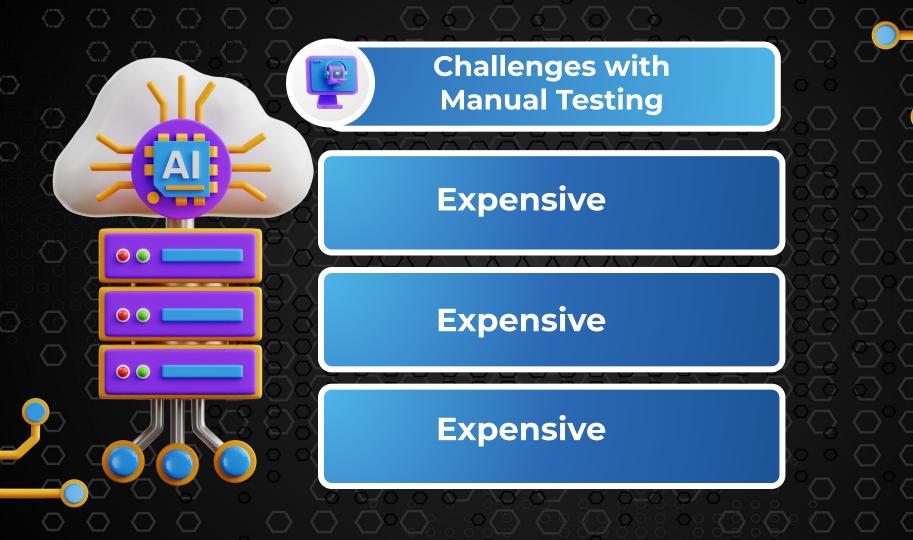














Hybrid testing combines various testing methodologies, tools, and strategies to create a comprehensive and robust testing framework for Social Media API integration. This approach leverages the strengths of different testing types, such as automated testing, manual testing, and Al-based testing, to address the unique challenges posed by social media platforms.

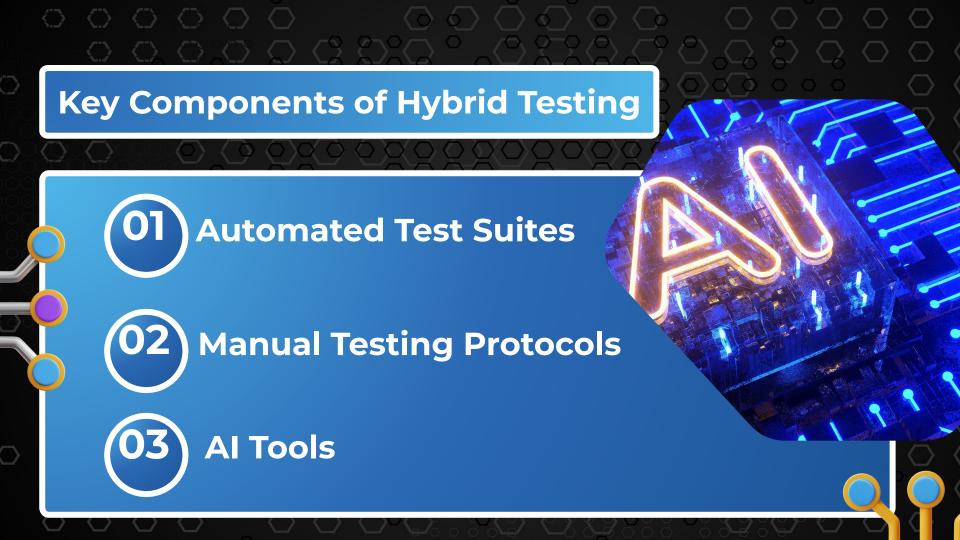
Key Components of Hybrid Testing

(01) Automated Test Suites

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(02) Manual Testing Protocols







Benefits of Hybrid Testing

(01) Comprehensive Coverage

(02) Realistic Testing

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(01) Comprehensive Coverage

- (02) Realistic Testing
- (03) Efficiency



- Generate Unique Content
- Simulate Human Behavior
- Limit Test Account Activity
- Use Test Environments
- Monitor Account Health











