



Outline



01

History of Test
Automation



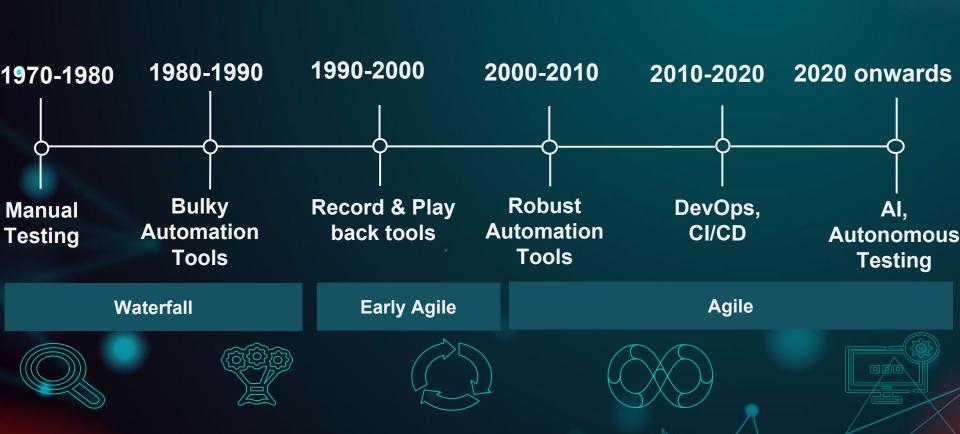
Challenges in Test
Automation



03

Al Powered Test Automation

History of Test Automation



Challenges in Test Automation

- Changing Requirements
- Insufficient Time to Ensure Quality
- Maintenance Overhead
- Prediction of User Behaviour
- Test Data Management
- Result Analysis and Defect Prediction



Al in Test Automation

- **Use-Cases**
- Al Powered Tools
- Case study: GitHub Copilot
- Al Adoption : Expectation vs Reality
- Strategies for Al Implementation

Al models designed to generate new content such as text, images, music and code based on patterns and data they have been trained on.

GenAl models trained on vast amount of text data to understand and generate natural language. Popular LLMs: GPT, Gemini,

Llama 3

Supplying specific cues to guide the AI system in generating novel output

Gen Al

LLMs (Large Language Models)

Prompting

GenAl Use-Cases

TEST GENERATION & MANAGEMENT

TEST EXECUTION & MAINTENANCE

Test Case Creation

Coding Assistance

Test Data Generation



RESULT ANALYSIS & DEFECT PREDICTION

Dynamic Test Execution

Self-Healing Tests

Visual Testing

Bug Management

Report Analysis

Al Powered Tools





headspin





tR testRigor

test **craft**

Testim





























GitHub Copilot – Al Pair Programmer

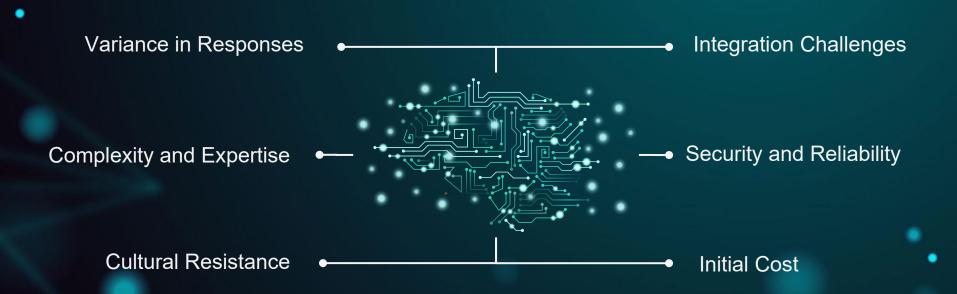


Describe the Goal

Be Flexible

Provide Examples

Al Adoption - Expectation vs. Reality



Strategies for AI Implementation



Embracing the Change



Al is your co-pilot. Not auto-pilot.

Do you have any questions?

navyaaj@gmail.com navya james@next.co.uk

THANK YOU





CREDITS: This presentation template was created by <u>Slidesgo</u>, including icons by <u>Flaticon</u>, and infographics & images by <u>Freepik</u>.

Please keep this slide for attribution.