

Index Page

	Pages
About Al Based Testing - MAGiX	3
Overview of the Tech Mahindra's Al based Testing Solutions	4
eAnalytics	4
Al Based Visual Testing	5
CHA.ai - Change Based on Al	6
Dexter - Chatbot for testing projects	7



Connected World. Connected Experiences.

OVERVIEW OF THE TECH MAHINDRA'S AI BASED TESTING SOLUTIONS

eAnalytics | AI/ML Powered

Predictive Analytics for Testing Projects



Outcome

Successfully implemented below use cases with > 80% accuracy

- Predict the likelihood of Success/ Failure of new Test Requirements
- Predict the likelihood of Success/ Failure of Tests
- Predict the likely time taken to fix the defects

Key Features

- Predict the outcome
- Using Explainable AI, detect the likely causes (Hotspots) of failure prediction
- Using the hotspot analysis, provide automated Actionable Insights

Benefits

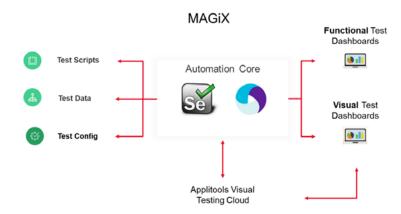
- Better decision making resulting in better test risk mitigation
- Faster Go-To Market with reduced Risk of Failure

■ Better test resource utilization

AI Based Visual Testing

Automated Visual Testing uses software to automate the process of comparing visual elements

across various screen combinations to uncover visual defects.



Why It's Important?

- Visual bugs adversely affect the customer experience and the brand value
- Visual bugs can affect the revenue (even if application function as expected)
- Omni-channel digital apps make it difficult to catch visual bugs across all browsers, devices and platforms

TechM's AI Based Visual Testing - Key Features

- Visual Testing across
 all browsers and platforms
- Script-less approach for faster visual tests
- IIntegrated Functional Test
 And Visual Test Dashboard

- Single click visual bug reporting in JIRA
- Easily enable / disable visual testing during test execution
- Fine grained control over visual comparison of screens

Key Benefits

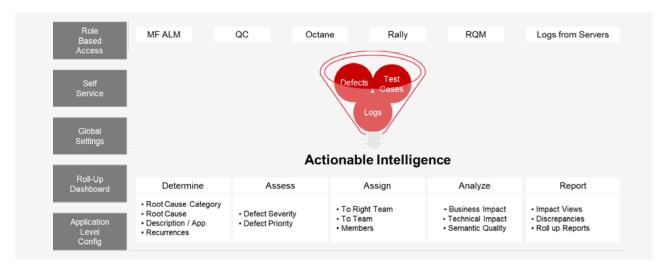
- Existing functional tests can be reused for visual tests without extra efforts
- Faster visual test design (due to script-less approach)

- Faster learning curve (no programming skills needed)
- Detailed reporting for faster troubleshooting and defect creation.

CHA.ai | Change Based on Al

For anomalies and failures IT engineers experience, Cha.Al can help predict - Root cause category; Exact failure point in logs; Originating application; Similar previous occurrences. It

can also open the defects and assign it to right teams. This results in sooner causal analysis, shorter triage, earlier resolution and faster time to market.



Challenges CHA.ai can overcome

- Delays in Defect Causal Analysis
- Incorrect and Delayed Assignments
- Untapped Potential of Historical Data
- Significant Time Spent in Log Analysis & Troubleshooting
- SME Dependencies

- Limited View of Trends and Impacts
 - Limited view of PIDs across Apps
 - Limited Connects across Teams
 - Minimal Automation in Test Support

Benefits

- Reduced time for Casual analysis
- Less dependency on SMEs for RCA
- Single source of truth for all logs (Elastic Stack)

- Minimum test support organization required
- With eco system QC, RQM, Rally, CTM, Bots, etc. integration, Cha.Al is designed for Intuitive and Seamless User Experience. Built using reliable algorithms and TechM IP, matured with several pilots in E2E services and applications, Cha.Al has been delivering accuracy in the range of 70%+ with potential savings of additional ~10%

Dexter | Chatbot for testing projects

Dexter, "not just a Chatbot", let organizations improve the efficiency of their IT and Operation teams through simplified and intuitive access to functionalities for their regular dev, test, triage, support and social needs. W

Simplified and easy to use application services are rendered based on role and privilege of users. With notifications and crowd sourcing features, it optimizes knowledge management, reducing time required to communicate, collaborate and coordinate.

Powered by Cha.Al, voice enabled Dexter leverages NLP, Al, Cognitive capabilities to learn and improvise with user activities. With abilities to serve users using natural language & voice, it caters to both open and closed domains of information using retrieval and to an extent generative technologies.



- The Brain AIML and NLP
- Extension Adapters and Integrations
- User Experience Voice enabled actionable links

AIML NLP SENTIMENTAL ANALYSIS

Tech Mahindra

Tech Mahindra represents the connected world, offering innovative and customer-centric information technology experiences, enabling Enterprises, Associates and the Society to Rise™. We are a USD 4.9 billion company with 131,500+ professionals across 90 countries, helping 946 global customers including Fortune 500 companies. Our convergent, digital, design experiences, innovation platforms and reusable assets connect across a number of technologies to deliver tangible business value and experiences to our stakeholders. Tech Mahindra is the highest ranked Non-U.S. company in the Forbes Global Digital 100 list (2018) and in the Forbes Fab 50 companies in Asia (2018).

The Mahindra Group is a USD 20.7 billion federation of companies that enables people to rise through innovative mobility solutions, driving rural prosperity, enhancing urban living, nurturing new businesses and fostering communities. It enjoys a leadership position in utility vehicles, information technology, financial services and vacation ownership in India and is the world's largest tractor company, by volume. It also enjoys a strong presence in agribusiness, aerospace, commercial vehicles, components, defense, logistics, real estate, renewable energy, speedboats and steel, amongst other businesses. Headquartered in India, Mahindra employs over 2,40,000 people across 100 countries.

more information about Tech Mahindra, connect with us at:

www.teachmahindra.com | connect@techmahindra.com

CONNECTED WORLD.
CONNECTED EXPERIENCES.