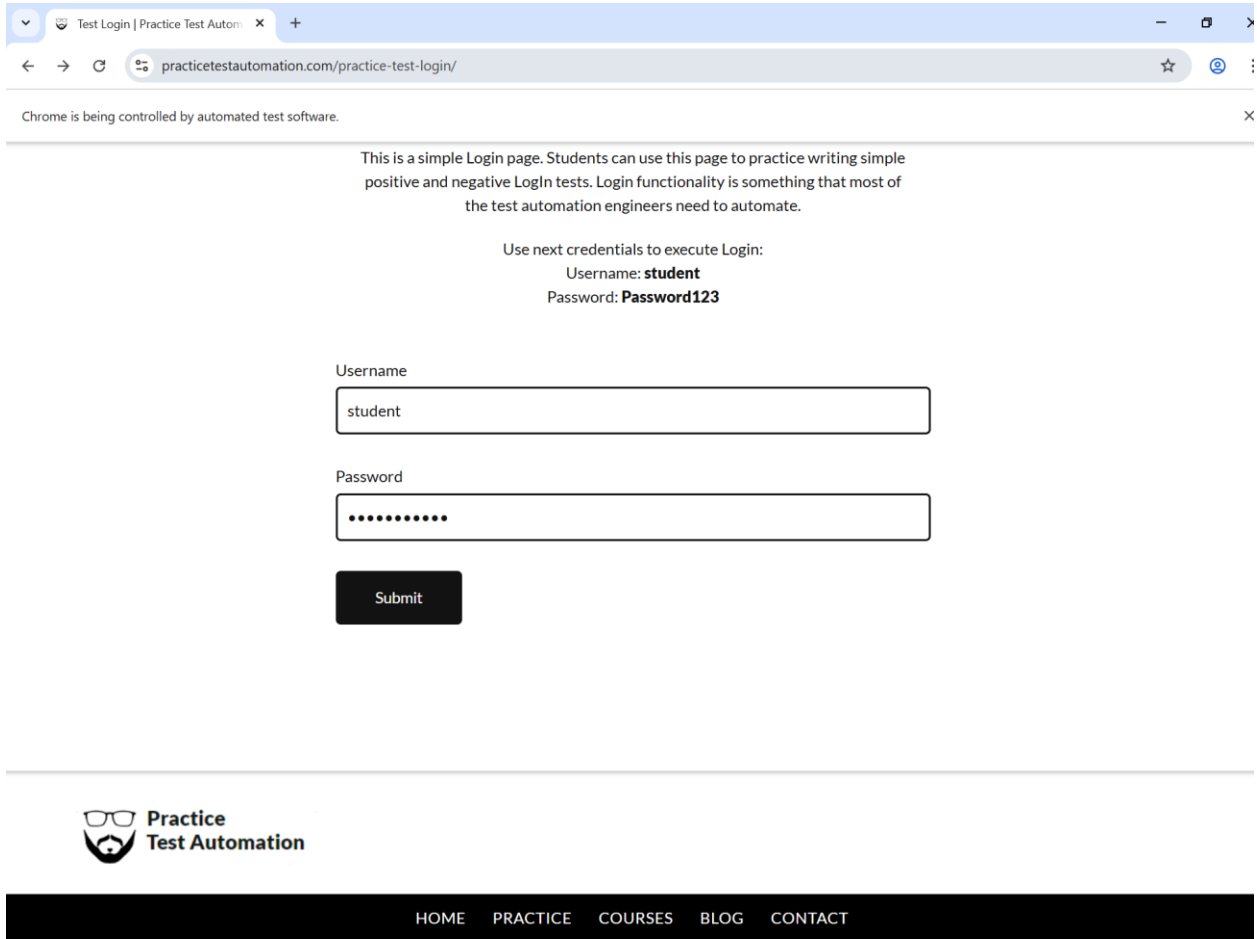


How AI Improves Test Coverage Compared to Manual Testing

Screenshots snippets for automated results



The screenshot shows a web browser window with the address bar displaying 'practicetestautomation.com/practice-test-login/'. The page content includes a message: 'This is a simple Login page. Students can use this page to practice writing simple positive and negative LogIn tests. Login functionality is something that most of the test automation engineers need to automate.' Below this, it says 'Use next credentials to execute Login: Username: **student** Password: **Password123**'. There are input fields for 'Username' (containing 'student') and 'Password' (containing dots), and a 'Submit' button. At the bottom, there is a logo for 'Practice Test Automation' and a navigation bar with links: HOME, PRACTICE, COURSES, BLOG, CONTACT.

Test Login | Practice Test Automon x +

practicetestautomation.com/practice-test-login/

Chrome is being controlled by automated test software.

This is a simple Login page. Students can use this page to practice writing simple positive and negative LogIn tests. Login functionality is something that most of the test automation engineers need to automate.

Use next credentials to execute Login:
Username: **student**
Password: **Password123**


Username

student

Password

.....

Submit

 Practice Test Automation

HOME PRACTICE COURSES BLOG CONTACT

Logged In Successfully

Congratulations student. You successfully logged in!

Log out

- ❖ AI-powered testing significantly enhances test coverage by automatically generating and executing a wide range of test cases—including edge cases humans might miss. While manual testing is time-consuming and often limited to common user paths, AI can analyze large datasets, learn from past bugs, and intelligently suggest new test

scenarios. Tools like Testim, mabl, and even smart Selenium plugins use machine learning to adapt to UI changes, reducing maintenance and increasing reliability.

- ❖ Moreover, AI can simulate user behavior at scale, running thousands of combinations across different devices, browsers, and inputs in a fraction of the time it would take manually. This not only boosts efficiency but also ensures deeper validation of the system under test.
- ❖ In short, AI turns test automation from a scripted checklist into an intelligent, evolving safety net—reducing human error, increasing speed, and giving developers confidence to release faster and more often.