



Full Stack QA Automation with Playwright & AI



Training Partner Skillsxai

www.skillspro.in

ABOUT SKILLSPRO

SkillsPro (unit of DPS Institute of IT and Vocational Studies Pvt. Ltd.) is an AI skilling platform built for India. Every course is hands-on, project-based, and mentored by working professionals. We don't just teach tools — we train you to use AI to get results, get hired, and build things that matter.

Training partner **skillsxai**

3 Months

Complete course duration.
Full curriculum covered.

WHY SKILLSPRO?

Zero to Job-Ready

We start from absolute basics. No prior degree or experience required for any course.

AI-First Curriculum

Every course integrates the latest AI tools used by real companies right now — not outdated theory.

Project-Based Learning

Resume building, mock interviews, portfolio review, and job referrals included.

Live Mentorship

Every session is live with working professionals. Ask questions, get real-world answers.

Placement Support

You build real projects every month. By the end you have a portfolio, not just a certificate.

Recorded Sessions

Miss a class? Every session is recorded and available for replay anytime you want.

WHAT'S INCLUDED IN YOUR ENROLMENT

Doubt Resolution Ask questions during class and in our community group

AI Tools Access Guidance Learn to access and use every tool taught in the course

Completion Certificate SkillsPro certificate upon successful course completion

Community Access Lifetime access to the SkillsPro alumni network

Ready to Transform Your Career?

Join thousands of students already learning AI skills at **SkillsPRO**.

QA

Full Stack QA Automation with Playwright & AI

Master Playwright, Postman & AI — the exact stack top companies hire for.

Industry's most complete QA stack — Playwright + TypeScript + API + Docker + CI/CD + AI Agents

A professional-grade QA Automation programme built for the modern SDET role. Master Playwright with TypeScript for UI automation, Postman & Newman for API testing, Docker for environment setup, and Jenkins/GitHub Actions for CI/CD pipelines. The final phase covers AI-Driven QA — self-healing tests, GitHub Copilot & Cursor AI, Playwright MCP to connect LLMs directly to browsers, and n8n to automate JIRA workflows. Everything taught is used in real company environments right now. No prior experience needed.

WHO IS THIS FOR?

Any stream / Any background. We teach coding from zero. Freshers & career switchers welcome.

FULL CURRICULUM

12 weeks • Phase-by-phase progression

PHASE 1 — Month 1 FOUNDATIONS & PLAYWRIGHT	PHASE 2 — Month 2 API TESTING & DATABASE	PHASE 3 — Month 3 CI/CD & AI-DRIVEN QA
<ul style="list-style-type: none"> • SDLC Models (Waterfall vs Agile) & STLC • JIRA — Epics, User Stories & Backlogs • Test Scenarios, Test Cases & Test Scripts • Bug Life Cycle & Severity/Priority Matrix • RTM — Requirement Traceability Matrix • Node.js Setup & TypeScript Fundamentals • ES6+ — Arrow Functions, Async/Await • TypeScript — Interfaces, Types & Generics • Playwright — Locators, Actions & XPath • Playwright — Shadow DOM & Iframes • POM (Page Object Model) Design Pattern • Playwright — Parallelism, Retries & Sharding 	<ul style="list-style-type: none"> • Postman — Collections, Environments & Vars • Pre-request Scripts & Tests with Chai.js • Newman — Run Collections via CLI • Playwright API — API Request Context Methods • Network Interception & Route Mocking • SQL — Joins, Primary/Foreign Keys, CRUD • MongoDB - Querying NoSQL Documents • Validate DB State Against UI Data • Docker — Images, Containers & Volumes • Auth — OAuth2, JWT & Cookie • Handling Docker Compose — Spin Up Test Environments Git — • Branching, Merge Conflicts & PRs 	<ul style="list-style-type: none"> • Jenkins — Freestyle & Pipeline Jobs • GitHub Actions — YAML Test Workflows • Allure Reports — Test Reporting & Dashboards • Cron Jobs — Scheduled Nightly Test Runs • GitHub Copilot / Cursor AI for Code Gen • Self-Healing Tests with AI Locators • AI-Based Visual Testing & Comparison • Playwright MCP — Connect LLMs to Browser • n8n — Automate JIRA Ticket Creation • AI-Generated Test Cases & Scripts • Capstone — Live E-commerce Test Framework • Portfolio Build & Interview Preparation

TOOLS YOU WILL MASTER



WHAT YOU WILL ACHIEVE

- Build full Playwright + TypeScript test frameworks
- Test APIs end-to-end using Postman & Newman
- Validate databases with SQL and MongoDB queries
- Set up Jenkins & GitHub Actions CI/CD pipelines
- Use AI to self-heal tests and generate test code
- Connect LLMs to browsers via Playwright MCP
- Automate JIRA workflows using n8n AI agents
- Build a real E-commerce automation portfolio

SALARY OUTLOOK

Rs. 4 – 7 LPA
Fresher / Entry Level
Per Annum CTC

Rs. 10 – 18 LPA
Experienced (2-4 yrs)
Per Annum CTC

+22%
Job Growth
YoY growth — NASSCOM 2024