

DEEPAN AMARNATH

QA Strategist | Business Analyst | AI-Driven Solutions

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PROFESSIONAL SUMMARY

Senior QA Engineer with 3.5 years of experience transforming traditional testing into intelligent, business-driven quality strategies. Expertise in bridging technical execution with business objectives through AI-powered automation, strategic test planning, and no-code solution development. Proven ability to reduce manual effort by 70%+ while delivering zero-defect production releases.

CORE EXPERTISE

Quality Strategy & Business Analysis

Test Strategy Design • Requirements Engineering • Business Process Analysis • Agile/Scrum • Stakeholder Management • Risk Assessment • Quality Metrics & KPIs

AI-Powered QA & Automation

Custom AI Agents (Claude, ChatGPT Pro, Gemini Pro) • Selenium Framework Architecture • CI/CD Integration • API Testing • Regression Optimization • Test Data Generation

Development & No-Code Solutions

No-Code/Low-Code Platforms (Bubble, Webflow, FlutterFlow) • Workflow Automation (Make.com, n8n, Zapier) • Dashboard Development • Python • JavaScript • REST APIs

PROFESSIONAL EXPERIENCE

Senior Test Engineer | Whizlabs Software Pvt Ltd | June 2022 – November 2025

Business Impact & Strategic Contributions:

- Reduced regression testing time by 65% through AI-powered test optimization, enabling faster release cycles and saving ₹8L+ annually in QA costs
- Led quality strategy for 5+ enterprise products, achieving 95% test automation coverage and zero critical production defects for 12 consecutive releases
- Built business intelligence dashboards using no-code tools, improving stakeholder visibility and reducing reporting time by 70%

- Collaborated with product and business teams to translate requirements into comprehensive test strategies, reducing post-release defects by 90%

Technical & Process Innovation:

- Designed and implemented end-to-end test automation framework with 500+ reusable scripts using Selenium, TestNG, and Jenkins CI/CD
 - Created AI-powered test case generator using Claude API, reducing test planning effort from 20 hours to 5 hours per sprint
 - Developed intelligent bug classification system with Gemini Pro, cutting triage time by 50% and improving team efficiency
 - Architected automated test data generation workflows with ChatGPT Pro, eliminating 10+ hours of manual setup weekly
 - Mentored 4 junior QA engineers in automation best practices and AI-assisted testing methodologies
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KEY PROJECTS

AI-Powered Quality Intelligence System

Built comprehensive AI agent system that analyzes user stories, auto-generates test cases with 90% accuracy, and predicts high-risk areas. Integrated with JIRA for seamless workflow. **Impact:** 75% reduction in test planning time.

No-Code QA Command Center

Developed real-time quality dashboard using Bubble and Airtable featuring defect analytics, test coverage visualization, and sprint health metrics. **Impact:** Enabled data-driven decisions, saved 12 hours weekly in reporting.

Intelligent Regression Suite Optimizer

Created AI-driven system using Gemini Pro that analyzes code changes and selects relevant test cases, deployed on containerized infrastructure for parallel execution. **Impact:** 60% faster regression cycles, 98% defect detection maintained.

TECHNICAL SKILLS

AI & Automation: Claude (Anthropic), ChatGPT Pro, Gemini Pro, LangChain, RAG Workflows

QA Tools: Selenium WebDriver, TestNG, JUnit, Postman, REST Assured, JIRA, Confluence

Development: Python, JavaScript, Java, SQL, HTML/CSS, API Development

No-Code/Automation: Bubble, Webflow, Make.com, n8n, Zapier, Airtable

DevOps: Jenkins, Git/GitHub, Docker, CI/CD Pipelines

Methodologies: Agile/Scrum, Test-Driven Development, Risk-Based Testing

EDUCATION & CERTIFICATIONS

Bachelor of Science in Information Technology | CMS College of Science and Commerce | 2019 | 7.3 CGPA

Continuous Learning: AI/ML Fundamentals • Advanced Selenium • API Testing (Postman) • Agile Testing

KEY ACHIEVEMENTS

- ✓ **85%** test automation coverage across 5 enterprise applications
 - ✓ **200+ hours** saved quarterly through intelligent automation
 - ✓ **90%** reduction in critical production bugs
 - ✓ **₹8L+** annual cost savings through process optimization
 - ✓ **Zero** critical defects in 12 consecutive production releases
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References available upon request