

Babloo Kumar Sah

Gen AI/ML Engineer | Prompt Engineer | QA Automation Engineer

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Portfolio | LinkedIn | HackerRank | GitHub

Objective

Transitioning from a successful 5-year career in QA Automation to a role in Artificial Intelligence and Machine Learning, leveraging my expertise in Python, problem-solving skills, and analytical thinking to develop intelligent systems and contribute to cutting-edge AI projects.

Education

IK Gujral Punjab Technical University

Punjab

Computer science and engineering (CSE) Bachelor of Technology(B.Tech))

July 2015 - July 2019

Percentage: 69%

Experience

Intelligaia Pvt. Ltd. | QA Automation Engineer/ Gen AI/ML

Panchkula | Jan 2021 -Present

With 1 year of experience in Artificial Intelligence and Machine Learning (AI/ML), I utilized advanced techniques such as predictive modeling, sentiment analysis, and anomaly detection to transform testing workflows. I implemented machine learning algorithms to proactively identify high-risk areas, which improved defect detection rates, optimized resource allocation, and reduced testing efforts. These AI-driven strategies allowed for smarter, more efficient testing processes.

At Intelligaia Pvt. Ltd., I played a key role in quality assurance by managing both manual and automation testing activities. I diligently designed and executed test cases to validate system functionalities, ensuring comprehensive test coverage. Additionally, I automated repetitive testing scenarios using cutting-edge tools, which enhanced operational efficiency and significantly reduced turnaround times. To maintain high-quality standards, I collaborated closely with development teams to integrate automated test cases into CI/CD pipelines. This streamlined the development lifecycle and accelerated the release of reliable software solutions. My combined expertise in QA and AI/ML positions me to tackle complex challenges, innovate testing methodologies, and deliver high-quality software products effectively.

Meon Technologies Pvt. Ltd.(www.meon.co.in) | Quality Assurance

Noida | Aug 2019 - Nov 2020

During my time at Meon Technologies Pvt. Ltd., I worked on the development and quality assurance processes for the KYC (Know Your Customer) and REKYC (Re-Know Your Customer) project. As a QA engineer, I created and executed test cases to ensure the modules met compliance and security requirements.

I collaborated closely with the development team to identify areas for improvement, ensuring the project adhered to regulatory standards and fulfilled client expectations. Additionally, I automated key testing tasks, improving efficiency and accuracy. This experience highlights my ability to handle complex regulatory requirements and deliver reliable, client-focused solutions.

Skills

Programming Languages:

Libraries/Frameworks:

Tools / Platforms:

AWS, Machine Learning Algorithms, Predictive Modeling, Anomaly Detection, Sentiment Analysis, Data Preprocessing, Feature Engineering, Model Training and Evaluation, Neural Networks, Natural Language Processing (NLP), TensorFlow, PyTorch, AutoML, Hugging Face, Cursor AI, OpenAI(ChatGPT), LLM, V0.dev/bolt.new AI, Claude AI, Midjourney, Google Gemini AI, Ollama, and AI-Driven Testing Optimization. Python, JavaScript, Pytest, Selenium, Katalon Studio, NumPy, Cypress, Appium, JMeter, JUnit, Jira, Git & GitHub, Figma, Trello, Postman, ChatGPT, Excel, SDLC, Waterfall, Spiral, Hybrid and Agile Model, STLC, Mobile Testing, LangChain & Prompt Chaining, HuggingFace, OpenAI, Prompt Design, Prompt Design & Optimization (Zero-shot, Few-shot, ReAct, CoT), Natural Language Understanding (NLU), Cohere APIs, Fine-tuning and Evaluation of LLMs, Token Usage Optimization, OpenAI (GPT-3.5, GPT-4), Anthropic Claude, Gemini, Mistral-

Functional Testing, System Testing, Acceptance Testing, Integration Testing, Smoke Testing, Regression Testing, API Testing, Linux, MacOS, Windows, CI/CD, Defect Tracking and Management, Automation Testing, Strong Analytical and Problem-Solving Skills, Manual Testing Methodologies and Techniques, Test Case Design, Test Execution, Software Quality Assurance, Test Plan Development, Automated Test Scripting, Software Development Lifecycle, User Acceptance Testing (UAT), Collaboration and Teamwork, Performance Testing, Web Testing, Test Planning and Strategy, Quality Assurance Principles, Problem-Solving Abilities, Black-box and White-box Testing Techniques, Security Testing, Test Reporting and Documentation, BDD Framework, Behave, RestAPI, Test Rail, Wordpress and Woo commerce

Databases:

SQL, MongoDB

Projects

POS System(Web, Desktop and Mobile Application) Selenium, Python, Pytest, Allure, Jira, Git, BDD, API Testing, AWS EC2

The project was conceptualized to address special pain points within the retail industry, aiming to streamline transactions, inventory management, and sales reporting.

Role and Responsibilities for a Manual and Automation QA in a POS System Project:

Manual QA Responsibilities:

- Read and understand the business needs and features of the POS system for web, desktop, and mobile applications.
- Write test scenarios and test cases for all features, including edge and exception cases.
- Create a test plan with steps, tools, and deadlines for manual testing.
- Use Jira to log bugs with clear steps, screenshots, and expected results.
- Track the bugs and work with the team to fix them.
- Discuss issues and clarify doubts with developers and product managers.
- Join team meetings like sprint planning and daily stand-ups.
- Write and maintain test cases, bug reports, and test summary documents.

Automation QA Responsibilities:

- Build an automation framework using Python, Selenium, Pytest, and BDD tools like Cucumber or Behave, API Testing, JS, Jmeter.
- Make the framework reusable and easy to maintain.
- Automate important test cases like regression, workflows, and repetitive tasks.
- Test UI, APIs, and hardware integrations using automation.
- Run automated test cases regularly and connect them to CI/CD tools like Git and GitHub.
- Update scripts when there are changes in features.
- Use tools like JMeter to check how the system performs under heavy load.
- Simulate high transaction scenarios to identify bottlenecks.
- Analyze failed tests, debug errors, and report them to the team.
- Keep proper logs of all test executions.
- Suggest better tools or techniques to improve testing.
- Work towards reducing bugs in production.
- Write proper documentation for automation scripts and share test coverage reports.

eCommerce Web & Mobile Application

Selenium, Python, Appium, Jira, Git & Github, BDD, API Testing, AWS EC2, Jmete, and LLM and Hagging Face, Gen AI

An eCommerce web application facilitates online buying and selling of goods and services. It enables users to browse products, add items to a cart, securely make payments, and track orders. Admin functionalities include managing product listings, inventory, user accounts, and processing orders. Key features often include user authentication, product search and ltering, reviews and ratings, order history, and secure payment gateways.

Roles and Responsibilities for Manual and Automation QA in an E-commerce Application (Web & Mobile):

Manual QA Responsibilities:

- Analyze the business needs and features of the e-commerce application, such as product browsing, cart, checkout, payment, and user accounts.
- Write test cases for various workflows, including edge and error scenarios for both web and mobile apps.
- Create a test plan to define the testing strategy, resources, and timelines for manual testing.
- Test key features like user registration, product search, filtering, wishlists, and reviews.
- Verify payment gateways, coupons, and discount application processes.
- Test the application on multiple browsers (Chrome, Firefox, etc.) and devices (Android, iOS).
- Check the design and responsiveness of the application on various screen sizes and orientations.
- Ensure consistency between web and mobile versions.
- Log bugs in Jira or similar tools with clear reproduction steps, screenshots, and expected results.
- Track bug fixes and retest resolved issues.
- Work closely with developers, product managers, and designers to clarify issues and validate features.
- Participate in team meetings like sprint planning and retrospectives.
- Verify that new updates do not impact existing features.
- Maintain detailed test cases, test execution reports, and defect logs.

Automation QA Responsibilities:

- Develop and maintain an automation testing framework using Python, Selenium, Appium, Pytest, and BDD tools like Behave.
- Make it modular and reusable for both web and mobile platforms.
- Automate workflows such as product search, add-to-cart, checkout, and payment processes.
- Validate API responses and backend processes using automation.
- Automate mobile app testing for Android and iOS using Appium.
- Test scenarios like push notifications, app permissions, and offline functionality.
- Ensure the application works across different browsers and devices using automation.
- Test integrations with third-party services like payment gateways, shipping APIs, and analytics tools.
- Use tools like JMeter or equivalent to check app performance under high traffic and heavy loads.
- Debug failed test scripts, update automation suites for new features, and maintain test reports.
- Integrate automated tests into CI/CD pipelines for faster deployments.
- Maintain automation scripts and generate test coverage and execution reports.

Certifications

- Python - Naresh i Technologies.
- QA / MANUAL / AUTOMATION TEST ENGINEER - Udemy.
- Figma - Udemy.
- Gen AI/ML Engineer- ExpertPro
- Prompt Engineer- Coursera.org

Honors & Awards

- Best software project in College Tech fest "PRAYOG"
- Second Position in web Development