

# DEEPAK KUMAR RANA

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## PROFESSIONAL SUMMARY

Results-driven MCA graduate with strong foundation in Automation and Manual Testing. Expertise in Selenium WebDriver, TestNG, Java, and API testing with hands-on experience in building hybrid automation frameworks. Proficient in Agile methodologies. Seeking to leverage technical skills and problem-solving abilities as an Automation Test Engineer.

## TECHNICAL SKILLS

- **Automation Testing:** Selenium WebDriver, TestNG, JUnit, Maven, Hybrid Framework, Page Object Model (POM), Data-Driven Testing, Parallel Execution, Cross-browser Execution, Batch Execution
- **Programming Languages:** Java (Core Java, OOPS, SOLID Principles, Multithreading, Exception Handling, Collections Framework, Java 8-17 features)
- **API Testing:** REST API, SOAP, Postman, JSON, XML, HTTP methods (GET, POST, PUT, DELETE)
- **Manual Testing:** SDLC, STLC, Test Case Design, Black Box Testing, Functional Testing, Regression Testing, Agile/Scrum, Defect Life Cycle
- **Tools & Technologies:** Git, GitHub, Jira, IntelliJ IDEA, Eclipse, Visual Studio Code, MySQL
- **Database:** Oracle SQL (Queries, Joins, Subqueries, Data Validation)

## PROJECTS

### Hybrid Automation Framework – OrangeHRM (Selenium + Java + TestNG)

[\[GitHub\]](#)

*Tech Stack: Java, Selenium WebDriver, TestNG, Maven, Apache POI, Log4j, WebDriverManager; PageFactory*

- Developed a complete Hybrid Automation Framework using Java, Selenium WebDriver, TestNG, Maven, and Page Object Model (POM)
- Automated critical functional workflows including Login, PIM, Recruitment, Leave Management, Employee Search, Add/Delete Employee, and candidate resume upload validations
- Implemented data-driven testing using Apache POI for Excel integration, enabling parameterized test execution across multiple datasets and environments
- Designed reusable BaseClass architecture for browser initialization, WebDriverManager integration, implicit/explicit waits, screenshot capture on failures, and automated teardown
- Structured framework with PageFactory design pattern, utility classes for common actions, and modular test scripts for enhanced maintainability and scalability
- Validated complex workflows including candidate search filters, PDF resume upload functionality, employee profile updates, and leave request approvals
- Executed test suites via testng.xml with support for parallel execution, cross-browser testing

### Smartcity Management System

[\[GitHub\]](#)

*Tech Stack: Spring Boot, ReactJS, MySQL, Tailwind CSS, API Gateway*

- Developed a microservices-based application for urban infrastructure management covering healthcare, education, public safety, and tourism modules
- Implemented user authentication and role-based access control using JWT and Spring Security for secure data access
- Performed API testing using Postman to validate REST endpoints for CRUD operations across different microservices
- Conducted functional testing of user login, registration, and dashboard features to ensure proper application workflow

## **EDUCATION**

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**Master of Computer Application (MCA)**  
*Gandhi Engineering College, Bhubaneswar*  
**Bachelor of Science in Physics (B.Sc.)**  
*F.M Autonomous College, Balasore*  
**Higher Secondary (CHSE)**  
*Jhadeswar +2 Science Residential College, Balasore*

Sept 2023 – June 2025  
CGPA: 9.15/10  
Aug 2020 – May 2023  
CGPA: 7.96/10  
June 2018 – March 2020  
PERCENTAGE: 87.5 %

## **CERTIFICATIONS & ACHIEVEMENTS**

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- Completed comprehensive training in QSpiders on Selenium WebDriver with Java, TestNG, and Maven for building scalable automation frameworks
- Hands-on experience with version control using Git and collaborative development on GitHub with branching and merge strategies
- Excellent academic performance with consistent results: 9.15 CGPA in MCA, 7.96 CGPA in B.Sc. Physics, 87.5% in Higher Secondary