

# RAJESH B

## STAFF ENGINEER

Aspire to leverage hands-on expertise in Artificial Intelligence and Machine Learning — with a focus on Natural Language Processing, Generative AI, and LLM-based systems — to drive innovation, accelerate development, and contribute to transformative solutions in cutting-edge technological environments.

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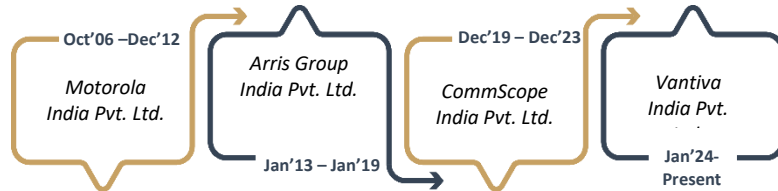


## PROFILE SUMMARY

- Over 18 years of rich experience in software testing and quality assurance, with deep domain expertise in **Set-Top Box (STB), Router, and Gateway testing**, encompassing both functional and non-functional validation.
- Proven ability to lead QA teams across the full product lifecycle — from test planning and strategy development to execution, defect management, and release readiness.
- Extensive experience in **manual and automation testing**, with solid understanding of test design techniques, test case optimization, and agile QA practices.
- Led high-performing QA teams in cross-functional environments, ensuring timely delivery of high-quality software across embedded systems and networking domains.
- Recognized for delivering measurable outcomes, including a 30% improvement in bug detection efficiency through AI-enhanced test strategies.
- Adept at building collaborative environments, working across cross-functional teams, and applying **prompt engineering, NLP, and deep learning** techniques to solve complex problems.
- Actively pursuing opportunities to contribute to cutting-edge AI projects, with a strong commitment to continuous learning, ethical AI development, and impactful innovation.



## CAREER TIMELINE



## WORK EXPERIENCE

Vantiva India Pvt Ltd. | Staff Engineer | 01/2024 – Present

### Key Result Areas:

- AI-Driven Code Generation Tool: Designed and implemented an internal solution to automate code creation, reducing development time.
- Test Case Generation Tool: Built an AI-powered tool for precise and efficient test case creation, improving software testing and productivity.
- Bug Similarity Detection: Developed a Generative AI tool that identifies duplicate bugs, reducing test execution time by 30% and streamlining Jira ticket tracking for faster issue resolution.
- Q&A Chatbot for Log Analysis: Trained an AI chatbot on log data to automate analysis, minimizing manual effort and boosting efficiency.
- AI-Powered Document Insights: Created a Generative AI tool enabling interactive retrieval of insights from domain-specific documents, presentations, and spreadsheets, enhancing knowledge management.

CommScope India Pvt. Ltd. | Staff Engineer | 01/2019 – 12/2023

### Key Result Areas:

- AI-Based Regression Test Scoping: Led data collection, cleaning, and validation to enhance the accuracy and efficiency of AI-driven regression testing.
- Facial Emotion Detection (CNN): Assisted in data collection, labeling, and validation for a CNN-based model, improving detection accuracy and reliability.
- AI-Driven Test Estimation: Designed a solution to enhance test estimation accuracy, optimizing project planning and resource allocation.



## CORE COMPETENCIES

Generative AI Development

Open-Source AI Contribution

PyTorch & TensorFlow Frameworks

Data Analysis and Insights

NLP & Deep Learning

Networking Product Testing

Vector Database

Prompt Engineering

Test Strategy Planning

Cross-Functional Team Collaboration

Cloud Computing (AWS, GCP, Azure)

Retrieval augmented generation (RAG)



## REWARDS & RECOGNITIONS

STAR Award (09/2016) - CommScope India Pvt Ltd: Received STAR AWARD in 2016 for demonstrating exceptional performance and unwavering dedication



BRAVO Award (10/2013) - Arris India Pvt Ltd: Earned BRAVO award for high commitment, dedication, and finding critical bugs.



Spot Award, (10/2023) - CommScope India Pvt Ltd: Received multiple Spot awards and recognition for ongoing regular activities.



## CERTIFICATIONS

- Career Essentials in Generative AI (04/2024) - Microsoft and LinkedIn
- Develop Your AI Prompt Engineering Skills (02/2024) – LinkedIn
- ISTQB Certified Test Professional (08/2017)
- Six Sigma Green Belt training (04/2007)
- Motorola Quality Badge (04/2007)

- Wireless Networking Expertise: Proficient in WLAN 802.11a/b/g/n/ac/ax and Wi-Fi 6 standards.
- Wi-Fi & Mesh Network Testing: Conducted Wi-Fi EasyMesh controller/agent mesh network testing, client steering (RSSI, proactive, channel utilization, backhaul utilization), and performance evaluation.
- Escape Defect Analysis (EDA): Performed defect analysis and enhanced test coverage by adding new test cases.
- Test Cycle Management: Created test cycles for mobile app testing on DOCSIS and Telco gateways.

Arris Group India Pvt Ltd. | Senior QA Engineer | 01/2013 – 01/2019

#### Key Result Areas:

- Comprehensive Testing: Performed Full Regression, Focused Regression, Ad-hoc, and Sanity testing to ensure software quality.
- Standardization & QA Governance: Established and enforced standardized test processes and deliverables, improving testing efficiency.
- Supervision & Project Execution: Led QA teams, ensuring timely project completion and optimizing testing strategies.
- Debugging & Troubleshooting: Conducted debugging, troubleshooting, and unit testing of integration solutions.
- Test Rack Configuration: Set up and configured test rack environments to streamline regression and feature testing.
- Test Case Development: Created and executed test cases for new features, ensuring traceability with Feature Interaction Traceability Matrix (FITM).
- Defect Management: Logged and tracked defects in JIRA and Clarify, improving defect resolution efficiency.
- Reporting & Metrics: Generated detailed test reports and analytics for senior management.
- Training & Change Request Analysis: Trained new engineers and performed CR analysis for effective regression planning.
- Automation Collaboration: Worked with the automation team to develop and implement automated test scripts.



## PREVIOUS WORK EXPERIENCE

Motorola India Pvt Ltd. | Software Engineer | 10/2006 – 12/2012

#### Key Result Areas:

- Created, executed, and verified test cases, ensuring software reliability.
- Identified and logged bugs, verifying fixes for quality assurance.
- Conducted peer reviews of test cases and facilitated training sessions for new team members.
- Performed Ad-hoc and scenario testing to uncover hidden defects.
- Executed manual and automated functional, regression, and performance testing for robust product validation.
- Designed test cases for new features, edge cases, and exploratory testing.



## TECHNICAL SKILLS

- Generative AI
- Power BI
- Tableau
- AI Agents
- Vector databases
- Software testing



## EDUCATION

- **2004:** B.Tech. in Electronics & Instrumentation, Madras University
- **2023:** M .Tech. in Data Science and Machine Learning
- PES University, Great Learning
- **2011:** M.Tech. in Information Technology, Karnataka University



## PERSONAL DETAILS

- **Languages Known:** English, Tamil, Telugu and Kannada
- **Address:** Bangalore,Karnataka