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Students Trained

**60,000+**  
Students Placed

**1000+**  
Placement  
Companies

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# AI TESTING

(Automate Automation - Low Code / No Code)

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Step into the world of software training guided by the insights of an industry luminary, Ramana Bhupathi. With a career spanning over a decade and a half in the dynamic Information Technology sector, Mr. Bhupathi brings a wealth of experience and expertise that has shaped the course of modern software development.

Mr. Bhupathi's journey commenced at the forefront of technological innovation, with pivotal roles at Satyam Computer and Accenture Consulting. His hands-on involvement in diverse projects, leveraging cutting-edge technologies and agile development methodologies, set the stage for his profound insights into the digital realm.

Notably, his proficiency in executing projects on Microsoft Technologies became a hallmark of his career, reflecting his adaptability and commitment to staying at the vanguard of change.

A witness to the seismic shifts within the software development landscape, Ramana Bhupathi is resolute in his belief that the forthcoming decade will usher in even more rapid transformations. In his astute perspective, the IT workforce must embrace a culture of perpetual upskilling and reskilling to navigate this era of accelerated change.

Mr. Bhupathi's journey is characterized by a passion for cultivating enterprises rooted in emerging technologies. His endeavors have been focused on crafting platforms that not only resonate with the needs of today but also create a positive societal impact. His affinity for startups, each driven by a dedication to scalable solutions powered by Artificial Intelligence and Data Science, underscores his commitment to innovation.

Beyond the boardroom, Mr. Bhupathi's impact extends to the realm of education. His mentorship has illuminated the path for over 10,000 students and professionals, steering them toward lucrative careers in technology. With an unwavering calling to guide future tech talent, he embraced his true purpose, transitioning from the corridors of corporate leadership to the forefront of education. Today, his energy is channeled into honing the skills of young minds, immersing them in the nuances of new-age technologies through comprehensive training and impactful corporate programs.

Join us on an enlightening journey through the pages of this book, as Ramana Bhupathi's profound insights and guidance illuminate the ever-evolving landscape of Information Technology. His wisdom serves as a beacon for both novices and seasoned professionals, reminding us all that in the midst of change lies unparalleled opportunity.



## Introduction to AI and QA Engineering

### What is AI?

- ↳ Overview of Artificial Intelligence
- ↳ Types of AI: Narrow AI, General AI, and Super Intelligent AI
- ↳ Applications of AI in various industries

### AI in QA

- ↳ How AI is transforming QA processes
- ↳ Benefits of AI in testing
  1. Easy test automation,
  2. Predictive analysis

### Descriptive Statistics

- ↳ Measure of frequency
- ↳ Measure of central tendency
- ↳ Measure of dispersion
- ↳ Measure of position

### Inferential Statistics

- ↳ FTEST
- ↳ ANOVA

### Probability – need to update the content in details

- ↳ Probability Common Terms
- ↳ Binomial Distribution
- ↳ Normal Distribution
- ↳ Bayes' Theorem

## Machine Learning Basics AI ML for QA

### Testing Fundamentals for AI Systems

- ↳ Overview of Machine Learning (ML)
- ↳ Supervised vs. Unsupervised Learning
- ↳ Regression
- ↳ Classification
- ↳ Common terms in ML for QA
- ↳ Early Testing Strategies in ML Model.
- ↳ Functional Testing in ML Models
- ↳ Post Deployment Testing Types

AI TESTING



## Gen AI for QA Engineer

- ↳ Gen-AI for Test Engineer/ QA Engineer
- ↳ Learn Generative AI & AI Agents in Software Testing
- ↳ Generate Test Plan, Test Cases and Test Data using AI
- ↳ Functional Testing With ChatGPT
- ↳ How to use ChatGPT in Software Testing and Automation

## NLP and LLM

- ↳ Natural Language Processing (NLP) in QA
- ↳ LLM in QA
- ↳ Overview of popular LLM's and Challenges with these general LLM's
- ↳ Demo of Practice RAG LLM's to evaluate and write test automation scripts



## How AI will help in Automation Testing

### Introduction to No-Code Automation and Testim

- ↳ Understanding No-Code Automation
- ↳ Overview of Testim

### Setting Up the Testim Environment

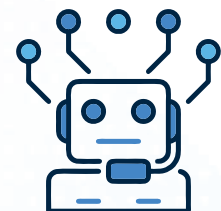
- ↳ Account Creation and Setup
- ↳ Navigating the User Interface

### Creating and Managing Test Cases

- ↳ Recording Test Scenarios
- ↳ Editing and Customizing Tests
- ↳ Organizing Test Suites

### Utilizing AI Features in Testim

- ↳ Smart Locators
- ↳ Self-Healing Tests



### Types of Selectors in Testim

- ↳ AI-based Smart Locators:
- ↳ CSS
- ↳ XPath Selectors
- ↳ Custom Attributes



## Validations and Assertions

### Gen AI for QA Engineer

- ↳ Validate Element's Dynamic Value
- ↳ Compare UI Data with API Response
- ↳ Check If an Element Contains a Specific Class ..etc

### Assertions

- ↳ Text Assertions
- ↳ Element Visibility Assertions
- ↳ Attribute Assertions
- ↳ URL Assertions
- ↳ Custom Assertions



### Debugging and Troubleshooting

- ↳ Identifying Common Issues
- ↳ Using Debugging Tools

### Integrations and Continuous Testing

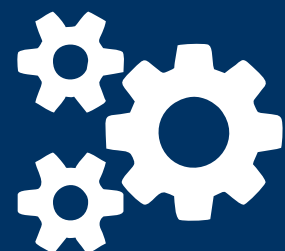
- ↳ CI/CD Pipeline Integration.
- ↳ Collaborating with Team Members

### Advanced Features

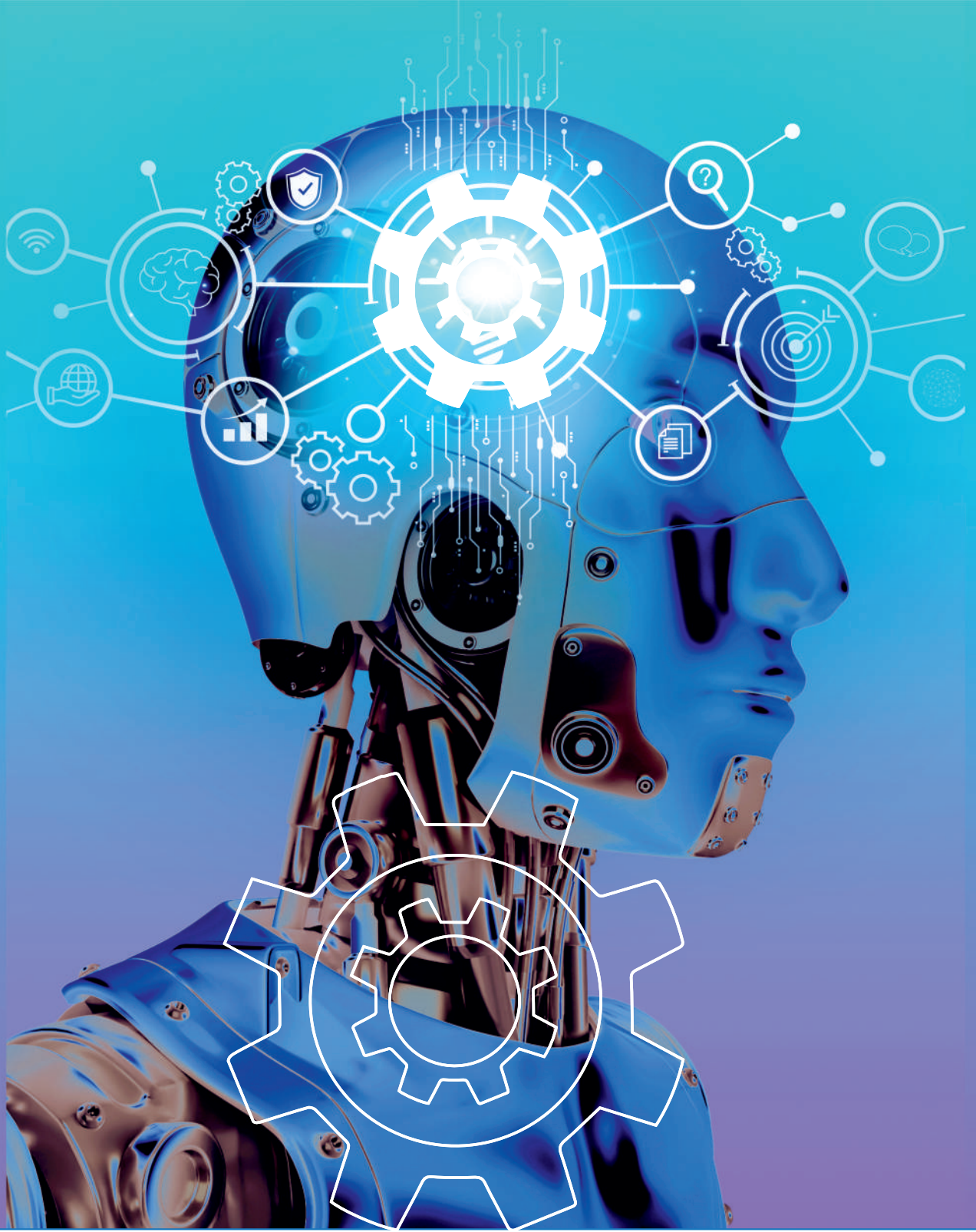
- ↳ Data-Driven Testing
- ↳ Custom Code Extensions

### Best Practices in Test Automation

- ↳ Designing Maintainable Tests
- ↳ Optimizing Test Performance







#### Our Students Are Placed In


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