

1. Write your thoughts over the role of QA in the AI dominant tech market.

Artificial Intelligence (AI) is a technology growing in various industries, particularly quality assurance in software development. It addresses challenges associated with human assistance in manual testing, reducing the risks of human errors, cost, and time inefficiencies, especially in cross-platform application development.

AI improves the testing process by predicting client behavior, detecting fraud not captured by traditional tests, and facilitating targeted marketing through automated activities. It eliminates test coverage overlaps, optimizes automation, and enhances agility and predictability through self-learning. In quality assurance, AI streamlines processes, reduces testing time, ensures comprehensive test coverage, focuses on defect hubs, and accelerates release cycles for faster time to market.

AI testing tools, including visual verifications, regression testing, image-based testing, API testing, and automated testing tasks, contribute to making testing more efficient and less reliant on manual updates. As AI becomes more dominant, testers can create, execute, and analyze software test cases more easily and readily identify controls and links between defects and software components.

The integration of Artificial Intelligence (AI) into software development, testing, anomaly detection, bug detection, and code reviews represents a transformative leap forward. AI not only expedites processes but fundamentally alters how developers approach quality assurance. Its applications in testing promise more efficient and responsive development cycles. Predictive analytics with AI offers businesses strategic foresight, while anomaly detection and bug detection contribute to enhanced security and code quality.

In Conclusion, In an AI-driven world, QA is no longer just about bug detection ,it plays a crucial role in ensuring AI systems are robust, unbiased, ethical, and secure. QA engineers must develop expertise in data science, AI explainability, and continuous monitoring to keep pace with the evolving landscape. As AI continues to shape the future of technology, QA professionals will be at the forefront, safeguarding the reliability and trustworthiness of intelligent systems.