Nuances of Using AI to Solve Real Enterprise Problems

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Executive Overview

Let's face it - a world where no one could get fired for buying a Mainframe has become a world where everyone must check off an innovation box to keep their jobs, and that latest check mark is AI. But knowing how to implement it is critical if a company wants to make and impact instead of throwing budgets into a black box. By understanding AI, companies can unlock value under-appreciated areas while avoiding the pitfalls of assuming AI can replace the work force.

Asking the Tough Questions

Artificial intelligence uses a set of inputs to provide an output, such as predictions, recommendations, and human assistance – meaning it must have great inputs to get to great outputs. It should also not be misconstrued that AI can do anything.

To sort through what's where AI can work and where it's doomed for failure, decision makers must ask tough questions to find the right places to bring in AI such as:
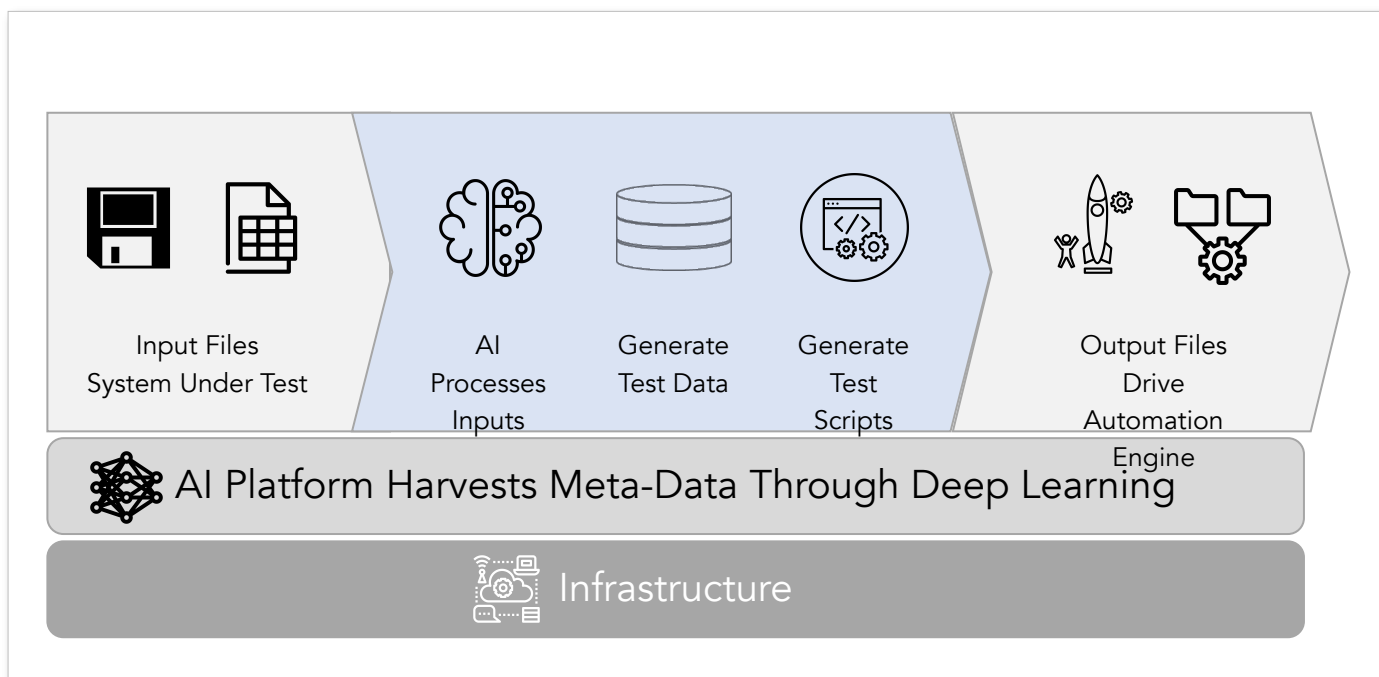
- **What are the pitfalls of the AI being implemented?**
    - Self driving cars need copious amounts of training data before the system is reliable. Natural language processing must be able to handle colloquial speech, not just dictionary definitions
- **Is our data biased?**
    - If you are bank looking to improve loan underwriting, the data must be well understood to identify systematic biases in the data.
- **Can a repeatable, iterative process be identified to improve upon**
    - It can't be assumed each project will work out of the box. It is important to experiment often and look for repeatable processes where AI can improve the process and feedback from the process can improve the AI.

By understanding where AI falls short, companies can go beyond board presentations to invest dollars where AI will be effective.

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The Man + Machine Model

One way to realistically implement AI is using the man + machine approach. This model is how we at AutonomIQ think the future of software QA will unfold. Humans are great at knowing what to test and the intention of the test, i.e. what actually matter to users. AI is great at the backend functions of writing scripts, checking for breaks in a business process, and generating data. By using the man + machine model, companies can get the best of both worlds, keeping up with development without needing to go into the weeds of how QA teams run their tests.

AutonomIQ's AI does the backend work for QA Teams

Input Files System Under Test	AI Processes Inputs	Generate Test Data	Generate Test Scripts	Output Files Drive Automation Engine

AI Platform Harvests Meta-Data Through Deep Learning

Infrastructure

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