Why does the AI|MI Project Fails?

No, I don't want to make this post sound like yet another post to underline the importance of Data Engineering to Data Science, there are so many of them on the internet, already!
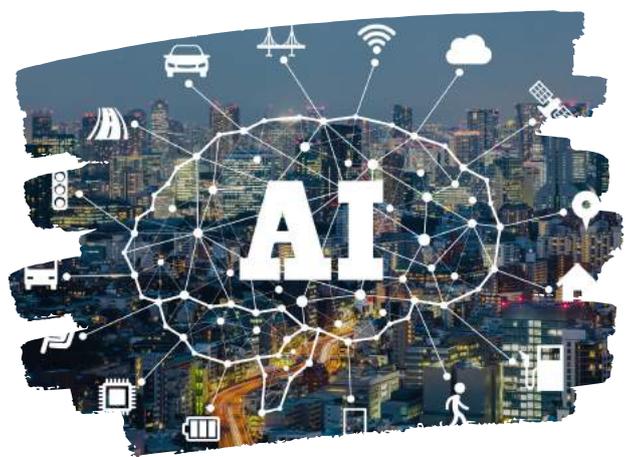
I want to talk about the single most important factor (that I feel), which leads to failures of Data Science projects.

Ever since 2017 multiple reports were published by the Gartners, IBMs, and other business analysts that more than 80% of the Big Data & AI, ML projects fail due to lack of reliable data infrastructure.
The condition today is not very different, you may disagree with me on this.

Most of the businesses are sitting on huge amounts of varied data after they have embraced the digital transformation. All of them want to leverage this data to dig out insights for specific business problems.

Enter the Heroes, Data Scientists who can swoosh their magic wands over the data, to make it speak and reveal; but wait, where is the data?

Strong software engineering discipline and hygiene is the cornerstone of creating AI, ML-powered or Non-AI, ML-powered solutions.

A strong understanding of software design & architecture, data structures, data modeling, factors affecting scalability and reliability of systems, understanding of cloud-based services to accelerate the data infrastructure is a must.

This is what makes Data Engineering a specialized and distinct function.

This unfortunately is not a pre-requisite for being a pure Data Scientist. Data Science needs skills like applied mathematics, stats, algorithms, ML techniques.

Hence these are not interchangeable, and forcing data scientists to do the engineering work is usually a recipe for failure.

As all of us know that all AI, ML, and data projects, are about 80% engineering and 20% Data Science Magic.

The Data Science Magic gets the WOW, but its Data Engineering blood & sweat makes the magic work, reliably and repeatedly.

It's imperative to include Data Engineering in your star cast, invest, and front-load in it for a successful AI, ML-based business solution, or a service offering.

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The AI,ML Star Cast

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