

Podcast assignment #1

Many problems dealing with Data problems



February 18, 2024

Avinash Nuthalapati - 8943845

Tony Kumar Bodhimisetty - 8856927

**Title:**

The Many problems in Dealing with Data problems.

**The significant problem this process addresses.**

The main problem that this podcast episode addresses is how to communicate and resolve data problems effectively with different stakeholders, such as business partners, data engineers, and data consumers.

**Why is it a significant problem?**

Since data fuels critical business functions, such issues can cause some serious risks and damage to the company, which can lead to:

* Inaccurate or misleading decisions based on faulty data.
* Wasted time and resources due to data duplication or inconsistency.

**How would software engineers generally deal with this problem?**

* Identify the root cause of the data problem.
* Communicate to relevant stakeholders.
* Resolving using appropriate tools like data validation or visualization.
* Test solution using quality assurance methods.
* Monitor solution performance using data accuracy or completeness indicators.
* Prioritize based on impact, urgency, and complexity.
* Document using clear terms, metadata, and complexity.

**Three ideas did you take away from this podcast?**

* Data problems can have serious consequences for business decisions and customer trust. So, Data analysts need to clearly understand the data sources, the data pipeline, the data context, and the data expectations.
* Data analysts need a proactive and collaborative approach to identify, prioritize, document, communicate, and resolve data problems.
* Data analysts need to educate and empower their business partners and data consumers to be more data literate and data savvy.

**Two questions after listening to this podcast?**

* How can data analysts measure and improve the impact of their data problem-solving efforts on business outcomes and customer satisfaction?
* What are the best practices and tools for data governance and data quality management that can help prevent data problems in the first place?

One possible metaphor that would be illustrative of this podcast is a puzzle. Data problems are like challenges you solve by putting pieces together. Solving a puzzle needs skill and creativity, just like solving data issues needs knowledge and cleverness. Working together in teams, like sharing ideas on a puzzle, helps solve data problems better. Solving data problems helps improve skills and business outcomes, just like finishing a puzzle gives a sense of accomplishment.