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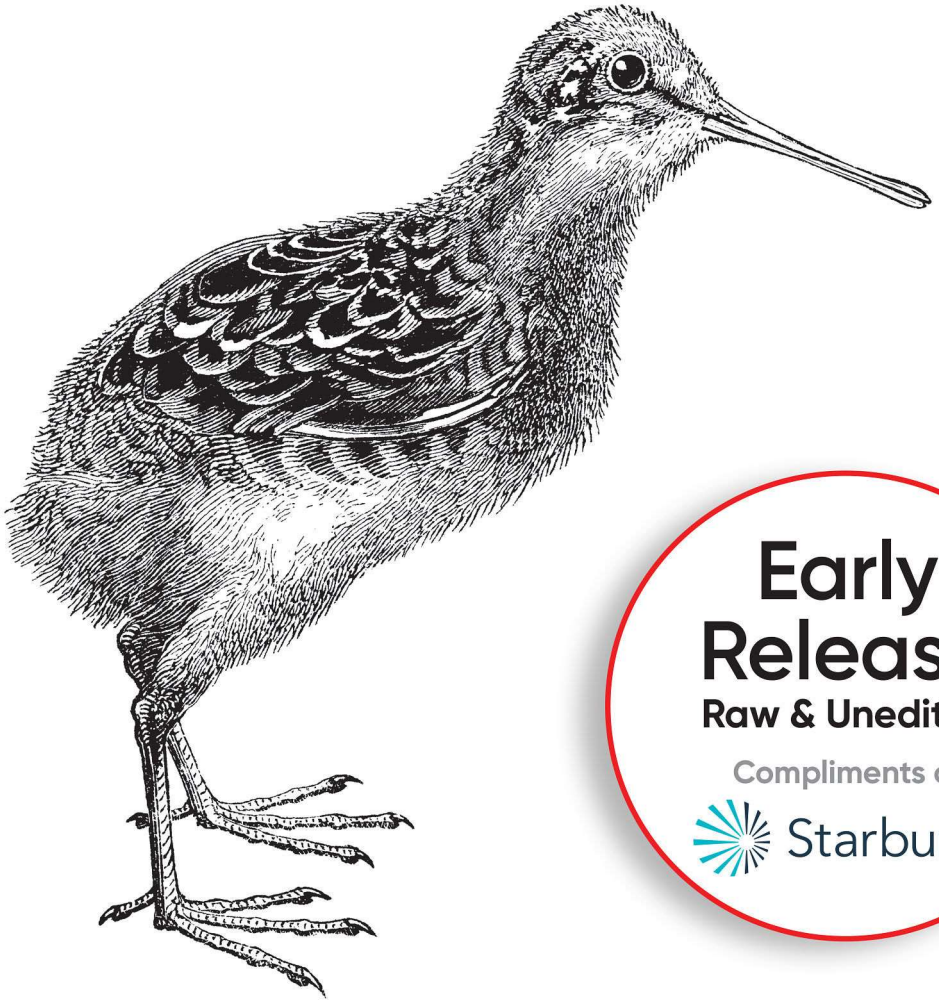
Delivering Data-Driven Value at Scale



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PART I

Why Data Mesh?

By doubting we are led to question, by questioning we arrive at the truth.
—Peter Abelard

Data Mesh is a new approach in sourcing, managing, and accessing data for analytical use cases at *scale*. Let's call this class of data, analytical data. Analytical data is used for predictive or diagnostic use cases. It is the foundation for visualizations and reports that provide insights into the business. It is used to train machine learning models that augment the business with data-driven intelligence. It is the essential ingredient for organizations to move from intuition and gut-driven decision-making to taking actions based on observations and data-driven predictions. Analytical data is what powers the software and technology of the future. It enables a technology shift from human-designed rule-based algorithms to data-driven machine-learned models. Analytical data is becoming an increasingly critical component of the technology landscape.

The phrase data in this writeup, if not qualified, refers to analytical data. Analytical data serves reporting and machine learning training use cases.

Data Mesh calls for a fundamental shift in our assumptions, architecture, technical solutions, and social structure of our organizations, in how we manage, use, and own analytical data.