•• Medium Q Search Member-only story **Fundamentals of Data Engineering Book — Key Learning Points** Published in Data Engineer Things · 14 min read · May 14 796 In this post, I will share my key learning points from the "Fundamentals of Data Engineering" book by Joe Reis and Matt Housley. O'Reilly published the book in June 2022. As an aspiring data engineer, I continually seek resources to broaden my understanding and improve my skills. I purchased the book on <u>Amazon</u> during the Black Friday sale for ~USD 35 and finished reading the book on 26 April 2023. My notes on the book have blown up to 56 pages. Although my primary goal isn't to understand everything or retain every detail, I enjoy the exposure to new concepts that I can delve deeper into when needed. What I love most about reading technical books is exploring new concepts in-depth and gaining a more profound understanding of the field. It also inspired me to reflect on my work experience in data and try to connect the dots between theory and practice. What to expect from Fundamentals of Data Engineering book: A brief overview O'REILLY" **Fundamentals** of Data Engineering Plan and Build Robust Data Systems Joe Reis & Matt Housley "Fundamentals of Data Engineering" is a comprehensive guide to data engineering concepts and practices. The book is not focused on a particular tool, technology, or platform used in data engineering. It focuses on the fundamental concepts behind data engineering. It allows you to understand the "why" behind the "how." This well-written book offers a comprehensive overview of data engineering, making it an excellent choice for beginners and experienced professionals. Here are my key learning points: **Chapter 1 — Data Engineering Described** This chapter provides a basic introduction to what data engineering is and the data engineering lifecycle (Generation — Ingestion — Transformation — Serving), which are covered more extensively in the other chapters. Data engineers build a solid foundation Data engineering provides data to downstream stakeholders such as data scientists. Data scientists spend most of their time on the bottom 3 parts: gathering, cleaning, and processing data. They may not be trained to write production-grade systems. It is crucial for data engineers to build a solid foundation in these 3 parts Create an account to read the full story. The author made this story available to Medium members only. If you're new to Medium, create a new account to read this story on us. Sign up with Google Sign up with Facebook Sign up with email Already have an account? Sign in \Box^{\dagger} \Box 796 Written by Khairina 413 Followers · Writer for Data Engineer Things Data @ Coca-Cola | Singapore | Data Engineering | Analytics More from Khairina and Data Engineer Things Engineering Robust Data Systems Maren Zhang in Data Engineer Things Khairina **Project 1: Spotify ETL using Python** 10 Things I Learned from Reading **Fundamentals of Data Engineering** and AWS After two enriching years as a Data Engineer, I In this post, I will share the steps taken and finally had the chance to dive into... key learnings from the pipeline project in th... → · 11 min read · May 17 → · 10 min read · Aug 2 231 Q 2 1.4K Q 15 Reference Moving and Processing Data for Analytics Khairina Hugo Lu in Data Engineer Things Column lineage is out: Al is in **Data Pipelines Pocket Reference— Key Learning Points** Why column-level lineage will rapidly be replaced by artificial intelligence In this post, I will share my key learning points from the Data Pipelines Pocket Reference:... → · 19 min read · Jul 2 → · 7 min read · Dec 19 149 Q 7 See all from Khairina See all from Data Engineer Things **Recommended from Medium** Walmart > Data Engineer Roadmap Nishal Barvaliya Nishchay Agrawal **Data Engineer Walmart Interview** Roadmap for Data Engineers in 2024 **Experience** Navigating the Data Engineering Landscape Subscribe My Youtube Channel For Data Engineering Insights & Interview Experience... in 2024: A Comprehensive Roadmap → · 4 min read · Dec 22 9 min read · Sep 21 452 (3 Lists Predictive Modeling w/ **Practical Guides to Machine Python** Learning 20 stories · 734 saves 10 stories · 847 saves **General Coding Knowledge Coding & Development** 20 stories · 725 saves 11 stories · 348 saves MLOps roadmap 2024 Nechtomova Maria in Marvelous MLOps Nnamdi Samuel in Art of Data Engineering The Meta Database Engineer MLOps roadmap 2024 **Capstone Project** The MLOps engineer role is different from an ML engineer role. Even though the role varie... My Approach To Tackling The Tasks Involved 6 min read · Dec 21 9 min read · Oct 3 706 Q 5 195 Richard Warepam 💡 in ILLUMINATION Michael Berk in Towards Data Science 1.5 Years of Spark Knowledge in 8 How to Break into Data Tips Engineering: 2024 The One & Only Way: Mastering the My learnings from Databricks customer Fundamentals engagements 11 min read · Dec 11 8 min read · 5 days ago 170 Q 2

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