

⌚ Data

- ⌚ Data
 - ⌚ Data Strategy
 - ⌚ 1. Alignment with business goals
 - Customer Retention and Loyalty
 - Market expansion
 - ⌚ Product Development (features/benefits)
 - A/B testing
 - ⌚ 2. Stakeholder involvement
 - Finalize business cases & impact
 - ⌚ 3. Audit your data maturity
 - 1. What happened (descriptive)
 - 2. What did happen (diagnostic)
 - 3. What will happen (predictive)
 - 4. What should we do (prescriptive)
 - 5. Data infrastructure, Processes, KPIs & metrics, Team and talent, Budget and resources, Culture
 - 4. Talent and training
 - 5. Budget
 - ⌚ 6. Prioritization
 - Effort vs. Impact
 - Less is more
 - Quick wins
 - Consider urgency
 - Get stakeholders involved
 - ⌚ 7. Phased approach
 - ⌚ 8. Data Governance and Quality
 - ⌚ Infrastructure
 - ⌚ Ingestion
 - EL (Extract/Load)
 - ⌚ Storage
 - Load
 - ⌚ Transformation
 - T
 - Reverse ETL
 - ⌚ Insights
 - ⌚ Data Stack (Higher Level Picture)
 - Data Integration
 - Data Engineering (Store, Transformation)
 - Data Warehousing
 - Real Time Analytics
 - Data Science
 - Data Visualization & Insights
 - ⌚ Data Tech Stack
 - ⌚ Data Ingestion - Apache Kafka/Apache Nifi/Amazon Kinesis
 - Streaming Data - Apache Kafka streams/Apache Flink
 - Data Storage - Amazon S3, Hadoop HDFS, Snowflake, Amazon Redshift
 - Data Transformation - Apache Spark/Amazon Glue
 - Data Access/Querying - SQL-based query engines (Apache Hive, Presto), Cloud based services - AWS Athena
 - Data Schedulers, Orchestration/Automation - Apache Airflow
 - Data Catalog - Apache Atlas, AWS Glue Catalog
 - Data Security & Governance
 - Data Observability - Monitoring & Management, Lineage (Prometheus, Datadog)
 - Data Visualization & BI - Tableau, Power BI
 - ML Integration
 - ⌚ Data Products