100 Days of ML
Day 4 - Batch ML
Day 5 - Online ML
Day 6 - Instance Vs Model...
Day 7 - Challenges in ML
Day 8 - Applications of ML
Day 9 - MLDLC
Day 10 - Job Roles
1. Various Data Based Job Ro...
1. Data Engineer
2. Data Analyst
3. Data Scientist
4. ML Engineer
5. Comparison

1. Various Data Based Job Roles

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1. Data Engineer

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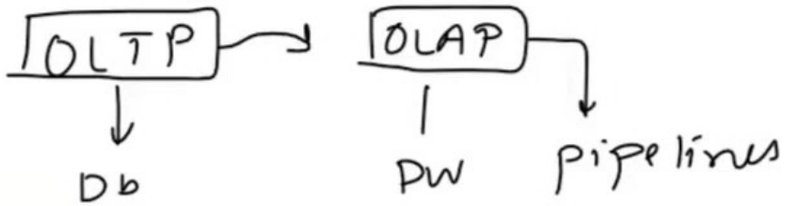
Job Roles

- Scrape Data from the given sources.
- Move/Store the data in optimal servers/warehouses.
- Build data pipelines/APIs for easy access to the data.
- Handle databases/data warehouses.



Skills Required

- Strong grasp of algorithms and data structures
- Programming Languages (Java/R/Python/Scal and script writing
- Advanced DBMS's
- BIG DATA Tools (Apache Spark, Hadoop, Apac Kafka, Apache Hive)
- Cloud Platforms (Amazon Web Services, Googl Cloud Platform)
- Distributed Systems
- Data Pipelines

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2. Data Analyst

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Responsibilities of a Data Analyst

- *Cleaning and organizing Raw data.*
- *Analyzing data to derive insights.*
- *Creating data visualizations.*
- *Producing and maintaining reports.*
- *Collaborating with teams/colleagues based on the insight gained.*
- *Optimizing data collection procedures*

Skills

- *Statistical Programming*
- *Programming Languages (R/SAS/Python)*
- *Creative and Analytical Thinking*
- *Business Acumen — Medium to High preferred*
- *Strong Communication Skills.*
- *Data Mining, Cleaning, and Munging*
- *Data Visualization*
- *Data Story Telling*
- *SQL*
- *Advanced Microsoft Excel*

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3. Data Scientist

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"A data scientist is someone who is better at statistics than any software engineer and better at software engineering than any statistician".

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4. ML Engineer

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Responsibilities

- Deploying machine learning models to production ready environment
- Scaling and optimizing the model for production
- Monitoring and maintenance of deployed models

Skills

- Mathematics
- Programming Languages (R/Python/Java/Scala mainly)
- Distributed Systems
- Data model and evaluation
- Machine Learning models
- Software Engineering & Systems design

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5. Comparison

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	ANALYTICAL SKILLS	BUSINESS ACUMEN	DATA STORYTELLING	SOFT SKILLS	SOFTWARE SKILLS
DATA ANALYST	HIGH	MEDIUM TO HIGH	HIGH	MEDIUM TO HIGH	MEDIUM
DATA ENGINEER	MEDIUM	LOW	LOW	MEDIUM	HIGH
DATA SCIENTIST	HIGH	HIGH	HIGH	HIGH	MEDIUM
ML ENGINEER	MEDIUM TO HIGH	MEDIUM	LOW	HIGH	HIGH