

Big Data Course

#### Mostafa Nabieh





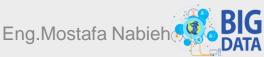












### Mostafa Nabieh









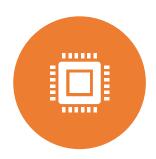






Mostafa Nabieh

## CONTENTS



WHAT IS DATA ENGINEERING?



BIG DATA ECOSYSTEM



BIG DATA LIFECYCLE



CAREER OPPORTUNITIES

# Career Opportunities in Data Engineering

- According to LinkedIn's 2020 Emerging Jobs Report, data engineering now joins machine learning and data science as one of the top-10 "jobs experiencing tremendous growth" in the U.S., with industries from retail to automotive taking notice and making this hard-to-hire talent a part of their teams.
- Dice Tech Job Report of 2020 lists data engineering as the fastest-growing tech occupation with a year-over-year growth of 50%. And with more and more companies competing to find the right talent for their expanding data infrastructure, it is expected to grow even further in years to come.





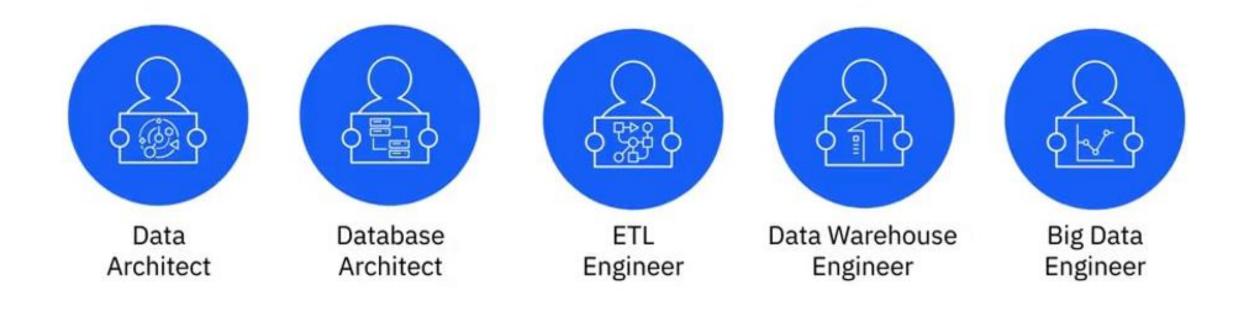
# Different Roles in Data Engineering

 There's a wide variety of job roles available for data engineers. Job titles are fluid, and a data engineering role can look a little different at every company.

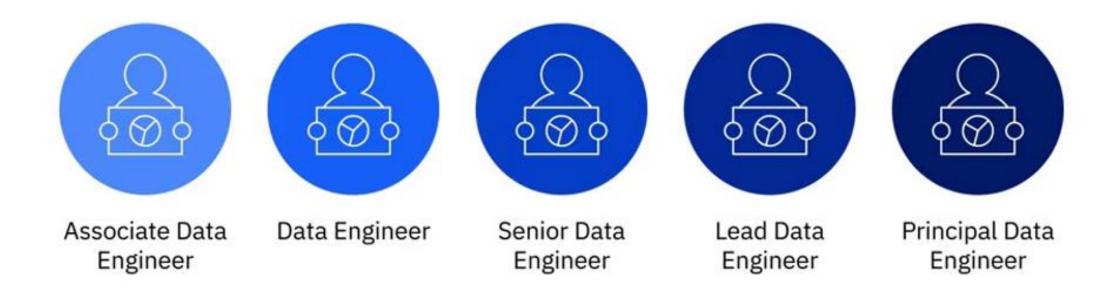


# Different Roles in Data Engineering

 All data engineering roles require you to have knowledge of operating systems, languages, databases, infrastructure components, and the potential application of data in business.



### Career Growth Path



#### **Emerging Roles**

- Work with big data stores, platforms, and processing tools like Hadoop and Spark. They specialize in the management of big data pipelines, and the movement and processing of data at scale.
- Design and implement machine learning algorithms, and work with large datasets of structured and unstructured data. This role is an intersection of data engineering and data science and Al skills.





Shanh 916