



**Assignment 03**

CSC557- Data Analysis Decision Making and Data Visualization

September 27, 2021

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MS in Physics-Analytics for Large Data Sets

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1. What is the role of a data analyst, a data engineer, and a data scientist. Describe each position. Describe how they compliment each other?

Role of Data Analyst:

* Using advanced computerised models to extract the data needed.
* Removing corrupted data.
* Performing initial analysis to assess the quality of the data.
* Performing further analysis to determine the meaning of the data.
* Performing final analysis to provide additional data screening.
* Preparing reports based on analysis and presenting to management.

Role of Data Scientist:

* + Needs to determine how to use business data for important business decision.
  + Tries to find out new data source and determine their accuracy.
  + Analyze databases to simplify and improve product development, marketing techniques, and business processes.
  + Create new data models and algorithms.
  + Use predictive models to improve customer experience, making promotional offers, revenue generation, and more.
  + Coordinate with various technical/functional teams to implement models and monitor results.

Role of Data Engineer:

* Make data accessible so that organizations can use it to better their performance.
* Collection and management of data, converting it into useful information.
* Build and maintain data pipelines and maintain databases.
* Collaboration with management to perceive organizational goals.
* Creation of new data validation processes and analytical tools.
* Design, build, test, and maintain data management systems.