

Genztechs
Data Science Internship program
Assignment 3

1. *Learn all these concepts from any resource.*
2. *Make a ppt.*
3. *Record the presentation on any tool like Microsoft Teams or Zoom while making the video mode on.*
4. *Upload the recorded presentation on the Google drive and paste its link on the Google classroom assignment.*

Topics:

- What is Data Science?
- Who is a Data Scientist?
- Data Science Skill Set
- Data Science Job Roles
- Data Life Cycle
- Statistics & Probability
- Categories of Data
- Qualitative Data
- Quantitative Data
- What is Statistics?
- Basic Terminologies in Statistics
- Sampling Techniques
- Random Sampling
- Systematic Sampling
- Stratified Sampling
- Types of Statistics
- Descriptive Statistics
- Measures of Spread
- Range
- Inter Quartile Range
- Variance
- Standard Deviation
- Confusion Matrix
- Probability
- What is Probability?
- Types of Events

- Probability Distribution
- Probability Density Function
- Normal Distribution
- Standard Deviation & Curve
- Central Limit Theorem
- Types of Probability
- Marginal Probability
- Joint Probability
- Conditional Probability
- Use-Case
- Bayes Theorem
- Inferential Statistics
- Hypothesis Testing

Resource:

<https://youtu.be/-ETQ97mXXF0?si=Ubc9S1w7g8QmHDx7>