DATA SCIENCE COURSE CONTENT

Intro to Data Science
- Evolution of Data Science
- What is ML/AI
- What is Data Science

Python for Data Science
- Introduction to Python
- Python with PANDAS/MatPlotLib/NumPy/GraphLabCreate

Model & Estimates
- Interpreting Data Visually
- Mean, Median, Mode, Standard Deviation
- Discrete Probability Distribution
- Binomial Distribution
- Probability Density Function (PDF)
- Cumulative Density Function (CDF)
- Normal Distribution
- Poisson Distribution
- Chi Square Distribution

Conditional Probability
- Covariance & Correlation
- Confusion Matrix
- Conditional Probability
- Bayes Theorem
- Decision Trees

Machine Learning
- Linear Regression
- Logistic Regression
- Classification
- SVMs
- Ensemble Methods
- Clustering
- Neural Networks
- Deep Learning

*** Each of the topics will be explained with case studies ***

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