greatlearning
Learning for Life

Week 3: Data Visualization using Python (Total video duration= 1 hour.You will be required to spend 20 min/day along with practice datasets and quizzes)

Learning Outcomes from Week 2

▶ Data Visualization libraries like matplotlib, seaborn and plotly.Understanding the application of each in different situations. Using seaborn and matplotlib to plot graphs for univariate and bivariate distributions, visualizing pairwise relationships in a graph.

▶ Plotting categorical data using boxplots, barplots, scatterplots with jitters and swarmplots, using multi-panel categorical plots and using lmplot for plotting linear regression models
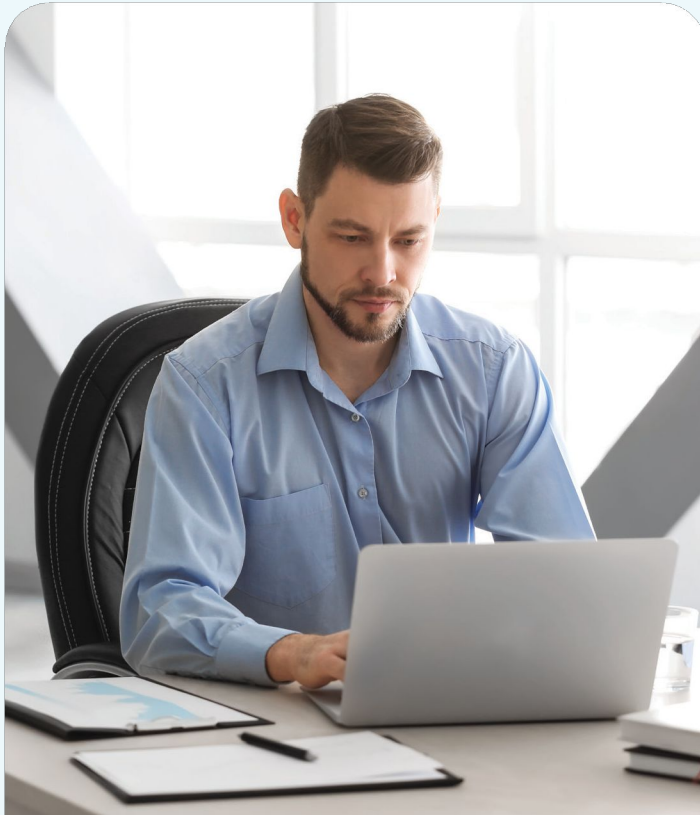
Mentor Session Duration: 2 hours		Faculty Name: Daniel Mitchell		No. of videos: 3
Video No.	Video Name	Duration of the video(mins)	Topics Covered	Conceptual or Hands On
1	Python Visualization - Introduction	06:51	Graphically representing data using matplotlib, seaborn and plotly.	Conceptual+Hands-On
2	Python Visualization - Plots and graphs(Continuous)	18:32	Plotting univariate and bivariate distributions using matplotlib and seaborn. Creating Hex Bin Plots, Kernel density estimation and visualizing pairwise relationships in a dataset	Conceptual+Hands-On
3	Python Visualization - How to Plot Categorically?	26:22	Creating Boxplots, Bar plots, using jitters and swarmplot to see full distribution of data, Drawing multi-panel categorical plots, using lmplot for linear regression models	Conceptual+Hands-On

Additional Reading material:

▶ https://towardsdatascience.com/the-next-level-of-data-visualization-in-python-dd6e99039d5e

▶ https://matplotlib.org/

▶ https://seaborn.pydata.org/installing.html