

#### Project 1: Introduction to NumPy

- I made a simple array using NumPy and demonstrated some things we can do with NumPy.

#### Project 2: Indexing, Slicing Numpy Arrays

- I created a specific array using NumPy and showed various slicing methods with the array.

#### Project 3: Iterating, Reshaping NumPy Arrays

- I did the challenge problem which was to create a specific array with ones and used some NumPy methods to tweak the array.

#### Project 4: Organizing and Manipulating NumPy Arrays

- I used the arange feature in NumPy to make an array then reshaped it, horizontally split it, and finally horizontally stack the array.

#### Project 5: Calculations with NumPy Arrays

- I created two arrays and basically used some math operations such as adding the arrays together.

#### Project 6: Advanced topics with NumPy arrays

- I did the challenge problem and basically did some advanced NumPy techniques, including multidimensional and complex array manipulations.

#### Project 7: Intro to Pandas

- I got into using the library Pandas and showed some things that can be used with it such as reading a csv file and crunching up certain numbers.

#### Project 8: Cleaning, Preparing and Organizing Data

- I combined multiple CSV files into a single dataframe and used some techniques to clean the data.

#### Project 9: Calculations with Data

- I calculated the average close price and used pandas for data manipulation.

#### Project 10: Intro to Bokeh

- I used Bokeh to illustrate some graphs of grades in a class.

#### Project 11: Scatter and Line Charts

- I did a challenge to perform mathematical functions on a graph.

#### Project 12: Interactive Visualizations

- I showed what I learned with Interactive Visualizations and displayed a graph with stock analysis. This graph can be very helpful to determine certain things.

The knowledge I've gained in Python and Data Science through these projects can significantly enhance my capacity in my field. If I plan on working in Data science, I now feel like I have the ability to perform well at the job. I enjoyed learning about python and data science because it felt like it wasn't too hard but also somewhat advanced.

For young people like myself, learning these skills is especially beneficial as they equip us with the tools to thrive in big data. This bundle provided basic fundamental knowledge to try and break into the Data Science field. I also created hands-on projects by watching the videos, and can now create even better projects on my own as I have a basic understanding.